

cttgaggcca	tgagttcaag	accagtctgg	ccattgtggt	gaaactccgt	ctctactaaa	540
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aggagaatca	cttgaatcca	tgaggcagag	gctgcaatga	gccaagatcc	tgccactgca	660
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<210> 1755  
 <211> 318  
 <212> DNA  
 <213> Homo sapiens

<400> 1755						60
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tctacccatt	cctacaaatg	cttgcaagtct	tctgttttct	aagtcccaac	agcttattgt	240
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<210> 1756  
 <211> 1860  
 <212> DNA  
 <213> Homo sapiens

<400> 1756						60
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atTTTTTaaa	aggacagaca	cggtacattg	agcttaattt	taatgttctc	tctaaaatgc	240
taataattat	ggctcaatta	ttacagtggg	tttcttggtg	gagttttctc	ccttttagctg	300
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<210> 1757  
 <211> 1120  
 <212> DNA  
 <213> Homo sapiens

<400> 1757							
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<210> 1758
<211> 1068
<212> DNA
<213> Homo sapiens
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```
<220>
<221> SITE
<222> (1060)
<223> n equals a,t,g, or c
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[illegible]

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<210> 1759
<211> 1272
<212> DNA
<213> Homo sapiens
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<220>
<221> SITE
<222> (1209)
<223> n equals a,t,g, or c
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<400> 1759
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tcacatactt agcccaaaca agtgccttgg cctcctcaga aatttaaaaag gtagaaaaaa 240
atggacatat ccccttttaa gaagcttcca catcacatat ttttyaaaaa gtatttacat 300
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cacctaactc ga 1272

```

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<210> 1760
<211> 536
<212> DNA
<213> Homo sapiens

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```

<400> 1760
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gctgtccccc accagataag ggcgtagcca ggcgtgtgtt ttaccatccg tcctcaccaa 480
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<210> 1761
<211> 393
<212> DNA
<213> Homo sapiens

```

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<400> 1761
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tcctgtactg taccgtgagg cagtgattag ctacgtgtgg ctcgtccaac tagagatgtg 120
ctgtgagtg aagatgcaca ctggatttct aaaactttgt gcaaagaaaa gggaaatata 180
taattagtaa tttcatatgg attctgtgtt gaaatgacaa tatttttaggt ttttgagcta 240
agtaaaaata cattatgaaa attagtttca ccttttttat tctacttctt aaaaatgtgc 300
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tgctctggat caagagtcgg caaactatgg ccc 393

```

```

<210> 1762
<211> 688
<212> DNA
<213> Homo sapiens

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```

<400> 1762
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caggcagctc	agctcacaga	gctccccctg	gccatgtcct	ccacctgccc	ttcctttgtc	240
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<210> 1763  
 <211> 1430  
 <212> DNA  
 <213> Homo sapiens

<400> 1763						
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<210> 1764  
 <211> 1803  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (24)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (46)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (106)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1788)

<223> n equals a,t,g, or c

<400> 1764

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<210> 1765

<211> 1149

<212> DNA

<213> Homo sapiens

<400> 1765

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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaag	ggcggccgct	1140
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<210> 1766  
 <211> 2753  
 <212> DNA  
 <213> Homo sapiens

<400> 1766						
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<210> 1778  
 <211> 605  
 <212> DNA  
 <213> Homo sapiens

<400> 1778						
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 <212> DNA





<220>  
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 <222> (3169)  
 <223> n equals a,t,g, or c

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<220>  
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 <223> n equals a,t,g, or c

<400> 1783

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<210> 1784

<211> 2621

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2102)

<223> n equals a,t,g, or c

<400> 1784

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 <212> DNA  
 <213> Homo sapiens

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 <221> SITE  
 <222> (18)  
 <223> n equals a,t,g, or c

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<210> 1787  
 <211> 635  
 <212> DNA  
 <213> Homo sapiens

<400> 1787

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<210> 1788

<211> 1187

<212> DNA

<213> Homo sapiens

<400> 1788

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<210> 1789

<211> 921

<212> DNA

<213> Homo sapiens

<400> 1789

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 <212> DNA  
 <213> Homo sapiens

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<210> 1791  
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 <212> DNA  
 <213> Homo sapiens

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 gcctgtcaga gccttttaaaa tgcaaaccca ccttgtgaat ctctatggta agacataata 600  
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<210> 1792  
 <211> 799  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1794

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&lt;210&gt; 1795

&lt;211&gt; 407

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1795

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&lt;210&gt; 1796

&lt;211&gt; 1255

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 1796

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 <212> DNA  
 <213> Homo sapiens

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 <211> 1100  
 <212> DNA  
 <213> Homo sapiens

<400> 1808						
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<210> 1809  
 <211> 1963  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (15)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1871)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1954)  
 <223> n equals a,t,g, or c

<400> 1809  
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1963

<210> 1810  
<211> 960  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (928)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (956)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (957)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (959)  
<223> n equals a,t,g, or c

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<211> 1691  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
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<223> n equals a,t,g, or c

<400> 1811  
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<210> 1816  
 <211> 2082  
 <212> DNA  
 <213> Homo sapiens

<400> 1816						
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<212> DNA

<213> Homo sapiens

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Figure 1. The structure of the proposed model. The model consists of three layers: input, hidden, and output. The input layer has 10 nodes, the hidden layer has 10 nodes, and the output layer has 10 nodes. The model is trained using a genetic algorithm (GA) to optimize the weights and biases of the network. The GA is applied to the hidden layer weights and biases, while the input and output layer weights and biases are fixed. The fitness function is defined as the mean squared error (MSE) of the network. The GA iterates until the fitness function reaches a minimum value. The final model is then used to predict the output of the network for a given input.

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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (805)  
 <223> n equals a,t,g, or c

<400> 1847						
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<210> 1848  
 <211> 1027  
 <212> DNA  
 <213> Homo sapiens

<400> 1848  
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 ggggtaggga ggtgcagatg ttggtcaaag gatataaacc tgcagttcta tgatgaataa 600  
 gttctggaca tctggaatac agcatggatg ctatacttag taatactata ttgtacactt 660  
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 aaaaaaa 1027

<210> 1849  
 <211> 1248  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> n equals a,t,g, or c

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 aagtctgctt attggtttac tgggccccag gcttctgcag aaagtgaac atcaaaaataa 300  
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 gaacataatg tttagaaagc tgctactttt ttcaagatgc atattgaaat atgtaatgtt 420  
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<210> 1850  
 <211> 1019

<212> DNA  
<213> Homo sapiens

<400> 1850

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tatttagtgt	ccccttctga	tgaatatgat	gatcttgaac	ccattcttcc	tcctcaagca	240
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<210> 1851  
<211> 1309  
<212> DNA  
<213> Homo sapiens

<400> 1851

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<210> 1852  
<211> 2255  
<212> DNA  
<213> Homo sapiens

<400> 1852

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 <211> 1659  
 <212> DNA  
 <213> Homo sapiens

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 <211> 1647  
 <212> DNA  
 <213> Homo sapiens

<400> 1855						
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<210> 1856  
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 <212> DNA  
 <213> Homo sapiens

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ggcatgatct	tggtctactg	cgacctctgc	ctcctgtgtt	caagccattc	tcctgcctca	360
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<210> 1857  
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 <212> DNA  
 <213> Homo sapiens

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	ctcgag

<210> 1858  
 <211> 1264  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1211)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1256)  
 <223> n equals a,t,g, or c

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agtcacagga	carattttta
tctcttagac	aaatgagatg
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aagcatacta	atcttactgt
aatttcag	agacgttaga
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	agacaggaat
	ggttgacagt
	aacttatctg

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<210> 1859  
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 <212> DNA  
 <213> Homo sapiens

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 <211> 1450  
 <212> DNA  
 <213> Homo sapiens

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<210> 1861  
 <211> 1645  
 <212> DNA  
 <213> Homo sapiens

<400> 1861						
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<210> 1862  
 <211> 979  
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> n equals a,t,g, or c

<220>

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<222> (23)

<223> n equals a,t,g, or c

<220>

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<222> (976)

<223> n equals a,t,g, or c

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<211> 2952

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1145)

<223> n equals a,t,g, or c

<400> 1863

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tgatattcat	gg					2952

<210> 1864  
 <211> 1117  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (35)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (36)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (1096)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (1114)  
 <223> n equals a,t,g, or c

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ttttatatgt caagtaacta tttgtaaaag ttatactcac aaattattat aatgattact 1020
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<210> 1865
<211> 860
<212> DNA
<213> Homo sapiens

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<400> 1865
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atttttctta ttatatgtag tcaatgatga ctctcttcca ttacttcacg gcgagcagtg 240
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atcttttcat accttcttag actgatatta ctggtaaagc tgcttcagcc tgaagtcttg 360
aaacagtggc cagtctctgt gccagacact tagcaatcac aagcaattgt caaaacatac 420
accgtaattt ttgaagtaca atatacctat catccaccct agcaccagca agccacactg 480
gaattgttgg ccccatcca cgtggttgtt cactatggga ctgaagggtg gagaatgggg 540
gccattatag aaaacagtga atttcactgt aatgaaccct gactctttct tcataaagct 600
atcatctgga gactacaagt gtccaaatag actcgagaat tccaaagtag tttctctaga 660
tacttcttgt cagttcaata actgttttgg taaaggtaact aagttctgga gcttctcact 720
ttgctatcat ctgttatgtc attctaattt tctattttct aaataaacct ttgtaatcta 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
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<210> 1866
<211> 1086
<212> DNA
<213> Homo sapiens

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<220>
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<222> (519)
<223> n equals a,t,g, or c

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<220>
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<222> (531)
<223> n equals a,t,g, or c

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<400> 1866
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ccatattttg	cacaggaaat	atgaaaaagt	atatatatca	aacagtaatg	gcttattttt	240
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gaaataacta	tggaaccaatc	tagatctttt	tctctctatc	atctatacag	tttagagatt	960
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<210> 1867  
 <211> 969  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (10)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (969)  
 <223> n equals a,t,g, or c

<400> 1867						
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cactctcccc	tcttagaatg	gaagcactgt	gaggacagca	ttttatgtgc	atatgtgcgt	180
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tcccaatgtc	atgaccttta	tatttttccc	ttcaccggta	atacccttag	acttggtcag	420
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gatacagtaa	gaagtgttaag	aatatgagca	caataactga	aagtaaaatc	tcaatggata	840
cattaaacat	taagtttagat	gcagcagaaa	agagaagcaa	tgaactacga	gatacatcta	900
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caaaaaaan						969

<210> 1868  
 <211> 1206  
 <212> DNA  
 <213> Homo sapiens

<400> 1868						
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acgcgtccga	agtaatat	tattgacata	taatgcacat	acagtaaaat	ttactacttc	60
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<210> 1871  
 <211> 751  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (20)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (82)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (124)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
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 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (144)  
 <223> n equals a,t,g, or c

<400> 1871  
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ctgtcatggg	ctaggcatgg	tggctcacac	ctgtaatccc	agcatttttg	gaagctaaga	660
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ctctctaaaa	aaaaaaaaaa	agggcggcgc	c			751

<210> 1872  
 <211> 2329  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2292)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2305)  
 <223> n equals a,t,g, or c

<400> 1872						
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<212> DNA  
<213> Homo sapiens

<400> 1875

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<210> 1876  
<211> 594  
<212> DNA  
<213> Homo sapiens

<400> 1876

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<210> 1877  
<211> 909  
<212> DNA  
<213> Homo sapiens

<400> 1877

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<210> 1878  
 <211> 1463  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 1879						
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<210> 1880  
 <211> 1583  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (892)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (897)  
 <223> n equals a,t,g, or c

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<210> 1881  
 <211> 352  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> n equals a,t,g, or c





<220>  
 <221> SITE  
 <222> (1655)  
 <223> n equals a,t,g, or c

<400> 1884

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<210> 1885  
 <211> 2444  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1655)  
 <223> n equals a,t,g, or c

<400> 1885

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<210> 1886  
 <211> 895  
 <212> DNA  
 <213> Homo sapiens

<400> 1886						
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895

<210> 1887  
<211> 1320  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1024)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1309)  
<223> n equals a,t,g, or c

<400> 1887  
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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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 <211> 486  
 <212> DNA  
 <213> Homo sapiens

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<220>  
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 <211> 2184  
 <212> DNA  
 <213> Homo sapiens

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<211> 3852  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (2098)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (2111)  
<223> n equals a,t,g, or c

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 <212> DNA  
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<400> 1907

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 <212> DNA  
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<223> n equals a,t,g, or c

<400> 1911

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<210> 1912

<211> 1465

<212> DNA

<213> Homo sapiens

<400> 1912

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<210> 1913

<211> 1817

<212> DNA

<213> Homo sapiens

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<220>
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<222> (1796)
<223> n equals a,t,g, or c
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<210> 1914
<211> 1953
<212> DNA
<213> Homo sapiens
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<221> SITE
<222> (1362)
<223> n equals a,t,g, or c
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<210> 1916

<211> 4161

<212> DNA

<213> Homo sapiens

<400> 1916

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<212> DNA
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<400> 1932

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 <212> DNA  
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<220>  
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<220>

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<211> 2288

<212> DNA

<213> Homo sapiens

<220>

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<222> (603)

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<220>

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<210> 1944

<211> 1575

<212> DNA

<213> Homo sapiens

<400> 1944

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<210> 1945

<211> 549

<212> DNA







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 <221> SITE  
 <222> (539)  
 <223> n equals a,t,g, or c

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 tttttgtatg tatcagtagt cttcctcatt ttattattga atagtagtca attgtgtaaa 180  
 tacaccgcaa tttatctata cacctacttt tgaatgttgc ttttttcca agttttttca 240  
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 gagtaaaatc ggtgaataat atagtaggtg aatgtttaat ttttcagggg attgcaaaat 360  
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 agcatttgta gccaaaatat taggagattt ttgtgggtcta ctgtaataaa atactgttct 780  
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 aaaaaatttt tgagttcaga tggctctatg ctgaccaaca gatggatcag gaaatagcag 900  
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 a 961

<210> 1950  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 1950  
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 tacattttatg tgaaaacata taactcataa ctcttgattt ttttcaccaa agaaagtagc 180  
 tgataataaa aaatgttcca tttttcgtag cacaagctct atcaatttga gcttgttgat 240  
 gcattttaagt gtgatgacat taattacact ggcaaacact ccaaaagcgc actttctttt 300  
 atagcaaaat gcctttttaa taaaatgttt tcaaactctg cgaagaaagt ttagaaggga 360  
 gataagcctc attattactt gtgattatta taaatattaa acccttttat gtcataaatt 420  
 atagaacctt aaaaaagaat tatcagcttc aagctaaatg ctaaaataat ttttcttcat 480  
 agcaatatac ctcaaagcaa tgtgtgcata attataactt ctgatatgtt attagagcta 540  
 aatttttgata tgagaaattt ttaaaaactt atattttaat acaatttaag atttttccaa 600  
 tttttttaaa tattgcata ttgatcaaag tggttgatg ttaagatgta aaaattcccc 660  
 attttttggt aacaaagtct tgtcaaagga tgagtagaaa ctacgtagct atgaaaaggt 720  
 taattcatat attaggaaca gttttactgc agaaaattta aatcggttta aaatgtttat 780  
 accctcccac tttctactgc accaactcta taatgaggta ggtcaattga gctttttacc 840  
 tgctttcaaa aatagcacia aaatagttct taagaattac gttgagttag aatcagagat 900  
 tgaaaattat ctgcaagaat atgtataact tccttctccc ggcaccatca aacgtgtttc 960  
 tctcctttat tccccagatt ggttgaattc gatatcaagc ttatcgatac cgtcgac 1017

<210> 1951  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE





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aggccctcta	acgactacat	ataagaaaaa	cctatcacca	acgatcataa	gggtgccatat	540
caccaaggat	cttctatgcc	atgcagaccc	aatcaataca	aggcagaatt	gatttaatac	600
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<210> 1955  
 <211> 951  
 <212> DNA  
 <213> Homo sapiens

<400> 1955						
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gtaagtgtaa	agtttttgag	atctattctt	gatgtacttt	atctgttaatt	tggtgctttt	240
acttggacat	atatatgtgt	atatatggat	gtctgtctat	atatatatgt	ataagtaaaa	300
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caggtagtct	ttctttgttc	atatgctttc	ttttctctta	agaaagtatt	aaggagtgga	420
attgctgagt	catagcaaaa	aaaatgtatg	tttaacattt	taagtagctt	ctaaatcatt	480
tttcaaagtg	attgtgtcat	ttcacactcc	cctcatcagt	atatgagagt	tttacttta	540
tttccagcat	ttaagattgt	cagtctttca	ttttaatcat	cttcttttga	tgcttctttt	600
tgtctctgtt	ctctaattaa	tgaaaaacat	tgggatcaca	tcaagagata	taaaaaaaat	660
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aagttacgta	gtcaggagaa	ctagtacgaa	aaaggaatca	ggctctgtgtc	agagtaaaaa	900
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<210> 1956  
 <211> 1071  
 <212> DNA  
 <213> Homo sapiens

<400> 1956						
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<210> 1957  
 <211> 563  
 <212> DNA  
 <213> Homo sapiens

<400> 1957	
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tgctcataaa	tttctgtaag
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tttctcaag	ctatgaagtg
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<210> 1958  
 <211> 2930  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1911)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2687)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2700)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2775)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2888)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2897)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2907)  
 <223> n equals a,t,g, or c





<210> 1959  
<211> 932  
<212> DNA  
<213> Homo sapiens

<400> 1959  
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cctcacggtc acgtccaaca acaccactgc accagggaata tggatatata tttttggact 180  
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tcactttcaa gatttgtttt ggtgtcaaaa taacatgaaa aggtagatgg agttgcttct 600  
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cttaatggca tggactctgg agaactctat cgaatcaacc tttctacctt aatatctccc 780  
caaaaatgta tagtgccttg tttttatgta cagtttatac acagaaaagt ttgctctgca 840  
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catctcaatt tctaaaaaaa aaaaaaaaaa aa 932

<210> 1960  
<211> 2904  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2899)  
<223> n equals a,t,g, or c

<400> 1960  
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tcccagtcta tgagatgaag tttccagatc tgtgtgtgta ctgatcgccg catgaagacc 240  
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aatgtgtatt aacatacttc ttgaaaataa tgatggaaca tatctttaac caaatgtttg 360  
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<210> 1964  
 <211> 772  
 <212> DNA  
 <213> Homo sapiens

<400> 1964						
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<210> 1965  
 <211> 1481  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 1966						
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<210> 1967  
 <211> 1173  
 <212> DNA  
 <213> Homo sapiens

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<210> 1968  
 <211> 1098  
 <212> DNA  
 <213> Homo sapiens

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<210> 1969  
 <211> 692  
 <212> DNA  
 <213> Homo sapiens

<400> 1969						
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cagaagaatg	gactcatagg	tggccagggtg	gccagccctg	gctagaggct	cagccttccc	600
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<210> 1970  
 <211> 658  
 <212> DNA  
 <213> Homo sapiens



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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaa			1175

<210> 1973  
 <211> 553  
 <212> DNA  
 <213> Homo sapiens

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<210> 1974  
 <211> 1463  
 <212> DNA  
 <213> Homo sapiens

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 <211> 475  
 <212> DNA  
 <213> Homo sapiens

<400> 1975



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<210> 1976  
 <211> 636  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (622)  
 <223> n equals a,t,g, or c

<400> 1976						
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<210> 1977  
 <211> 520  
 <212> DNA  
 <213> Homo sapiens

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<210> 1978  
 <211> 1506  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1359)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1410)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1446)

<223> n equals a,t,g, or c

<400> 1978

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<210> 1979

<211> 906

<212> DNA

<213> Homo sapiens

<400> 1979

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<210> 1980

<211> 774

<212> DNA

<213> Homo sapiens

<400> 1980

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<210> 1981

<211> 1236

<212> DNA

<213> Homo sapiens

<400> 1981

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<210> 1982

<211> 2071

<212> DNA

<213> Homo sapiens

<400> 1982

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 <211> 1467  
 <212> DNA  
 <213> Homo sapiens

<400> 1983						
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<210> 1984  
 <211> 1201  
 <212> DNA



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<210> 1986  
 <211> 637  
 <212> DNA  
 <213> Homo sapiens

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<210> 1987  
 <211> 1610  
 <212> DNA  
 <213> Homo sapiens

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<210> 1988  
 <211> 2008  
 <212> DNA  
 <213> Homo sapiens

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<210> 1989  
 <211> 2008  
 <212> DNA  
 <213> Homo sapiens

<400> 1989						
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<210> 1990  
 <211> 2190  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1008)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1026)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (1085)  
 <223> n equals a,t,g, or c

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<210> 1991
<211> 240
<212> DNA
<213> Homo sapiens
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tttatcagat	tcttaaagga	ctctaagaca	aaaaaaggct	tatgaactga	tttaggattt			180
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<210> 1992
<211> 686
<212> DNA
<213> Homo sapiens
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<223> n equals a,t,g, or c
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<223> n equals a,t,g, or c

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taatacaaaa	gttttgagct	cttccaagta	taccatttat	atacaaaaaa	ataggtttat	540
tcattcatta	aactactttg	gaagcgtcag	tggatatatt	tgaaagtggg	aatcctgaat	600
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<210> 1993

<211> 1961

<212> DNA

<213> Homo sapiens

<400> 1993

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acaggtcaaa	cttggattta	gacaaagtta	aatgatcaac	tacatgatgc	aatttaatgg	1920
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<210> 1994

<211> 2647

<212> DNA

<213> Homo sapiens

<400> 1994

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<210> 1995

<211> 1520

<212> DNA

<213> Homo sapiens

<400> 1995

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<210> 1996  
 <211> 594  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> n equals a,t,g, or c

<400> 1996						
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<210> 1997  
 <211> 933  
 <212> DNA  
 <213> Homo sapiens

<400> 1997						
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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<210> 2001  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (21)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (93)  
 <223> n equals a,t,g, or c

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<210> 2002  
 <211> 1506  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (323)  
 <223> n equals a,t,g, or c

<220>  
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<220>  
 <221> SITE  
 <222> (447)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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<210> 2003  
 <211> 1424  
 <212> DNA  
 <213> Homo sapiens

<400> 2003						
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<210> 2004  
 <211> 1348  
 <212> DNA  
 <213> Homo sapiens

<400> 2004						
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<210> 2005  
 <211> 849  
 <212> DNA  
 <213> Homo sapiens

<400> 2005						
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 <212> DNA  
 <213> Homo sapiens

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<210> 2007  
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 <212> DNA  
 <213> Homo sapiens

<400> 2007

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 <212> DNA  
 <213> Homo sapiens

<400> 2008

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1292

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<212> DNA  
<213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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 <212> DNA  
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 <212> DNA  
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 <223> n equals a,t,g, or c

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<212> DNA

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<220>  
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 <213> Homo sapiens

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 <213> Homo sapiens

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 <222> (382)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
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 <223> n equals a,t,g, or c

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<210> 2034  
 <211> 2384  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (49)  
 <223> n equals a,t,g, or c

<400> 2036

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<211> 937
<212> DNA
<213> Homo sapiens
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<400> 2037

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937

<210> 2038

<211> 419

<212> DNA

<213> Homo sapiens

<400> 2038

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<210> 2039

<211> 4049

<212> DNA

<213> Homo sapiens

<400> 2039

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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (6)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (19)  
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<210> 2041  
 <211> 862  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (862)  
 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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<210> 2043  
 <211> 695  
 <212> DNA  
 <213> Homo sapiens

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 caagactcca tctcaaaaaa aaaaaaaaaa aaaaaa 695

<210> 2044  
 <211> 721  
 <212> DNA  
 <213> Homo sapiens

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<210> 2045  
 <211> 1029  
 <212> DNA  
 <213> Homo sapiens

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<210> 2046  
<211> 560  
<212> DNA  
<213> Homo sapiens

<400> 2046  
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gggtaagtct ccgggttggt tgggaaggact cagggttatg tggagttttg tcttttagtt 180  
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<210> 2047  
<211> 1288  
<212> DNA  
<213> Homo sapiens

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<211> 1492  
<212> DNA  
<213> Homo sapiens

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gtgaagttct ctggctcctg gtttttcttt gctgagaggt ttttgattac tgctttaatc 300  
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aaattcccct	taaaaggggc	tgtgccagtt	tgcattccca	gcagtgtatg	agagtgcctg	840
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<210> 2051  
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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cagttcatta	aacctcaaat	tactttaaaa	tatagtctat	taatttaaaa	aattaatcat	180
gttaacttac	actatcatgt	tttctttgat	tgttgaggtc	atctctgggg	gtctgtcttt	240
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<211> 851
<212> DNA
<213> Homo sapiens
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acagcagcct	aacgcatctt	gcggtatttg	cctgctttca	tcttgccaac	agaattccac		300
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<211> 1266
<212> DNA
<213> Homo sapiens
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<222> (497)
<223> n equals a,t,g, or c
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<222> (578)
<223> n equals a,t,g, or c
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<220>  
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<222> (606)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (615)

<223> n equals a,t,g, or c

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cttaagtata	tttaagcata	cggcagccaa	agcttggttg	ggctatagca	ataagtgacc	1200
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<210> 2055

<211> 1623

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1333)

<223> n equals a,t,g, or c

<400> 2055

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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2497)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
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 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
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 <223> n equals a,t,g, or c

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<223> n equals a,t,g, or c
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<223> n equals a,t,g, or c
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 <212> DNA  
 <213> Homo sapiens

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 <213> Homo sapiens

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<212> DNA
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 <212> DNA  
 <213> Homo sapiens

<400> 2070



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 <212> DNA  
 <213> Homo sapiens

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 <211> 605  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
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 <223> n equals a,t,g, or c

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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

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 <222> (694)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
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 <223> n equals a,t,g, or c

<220>  
 <221> SITE



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<212> DNA
<213> Homo sapiens
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<213> Homo sapiens

<400> 2098

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<211> 1969

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> n equals a,t,g, or c

<220>

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<222> (1922)

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<211> 1753

<212> DNA

<213> Homo sapiens

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<210> 2117

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1287)

<223> n equals a,t,g, or c

<400> 2117

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<210> 2118

<211> 1544

<212> DNA

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1534)  
 <223> n equals a,t,g, or c

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 aactgcaaat actgcaacaa ggaatacctc agcctgggtg ccctcaagat gcacatccga 420  
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<210> 2119  
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 <212> DNA  
 <213> Homo sapiens

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<210> 2120  
 <211> 1913  
 <212> DNA  
 <213> Homo sapiens

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 <211> 2192  
 <212> DNA  
 <213> Homo sapiens

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<210> 2122  
 <211> 1385  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1347)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1353)  
 <223> n equals a,t,g, or c

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<212> DNA  
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<211> 789  
<212> DNA  
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 <212> DNA  
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1092

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<212> DNA  
<213> Homo sapiens

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<212> DNA  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (1399)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (1415)  
 <223> n equals a,t,g, or c





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 <211> 960  
 <212> DNA  
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 <212> DNA

<213> Homo sapiens

<400> 2147

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<211> 2631

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2619)

<223> n equals a,t,g, or c

<400> 2148

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<212> DNA  
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (1999)  
<223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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cctgtaccag	gggtccatat	ttctaacttt	ggaagtgcct	cctggacatg	tccatgtggt	420
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catccccgcc	tcamtgcttg	ggcccccttg	gcttccccta	gggcagctca	catcaaggctc	600
cagcttggat	cggagctcct	acaggaagct	tccccagccc	tgctctgtcg	gagaactctt	660



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 <211> 1529  
 <212> DNA  
 <213> Homo sapiens

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ggctaagtgt	tgggcattgt	tgtacatttt	ctagcttgac	tccttggggc	aagttacttt	360
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tggcaggccc	tgagtttaatt	cactgccatc	attgtcctcg	tgettcatag	cagtagccgt	540
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 <212> DNA  
 <213> Homo sapiens

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<210> 2167

<211> 2354

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2180)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2255)

<223> n equals a,t,g, or c

<400> 2167

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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (21)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (744)  
 <223> n equals a,t,g, or c

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acaaacagaa	atcttagaac	tcaataaactc	aattggatgat	ataaaaaata	caaatgagaa	480
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cccawttcgc	cctatagtga	gkcggtattmc	aattcactgg	ccgkcgtttt	wcaamgtcgc	660
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gccagstggg	sgtaatagcg	gaan				744

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 <211> 372  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (368)  
 <223> n equals a,t,g, or c

<400> 2169						
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[illegible]

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<210> 2178
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<212> DNA
<213> Homo sapiens
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<400>	2178					
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catggtagg	catgtcatatc	taaatacaag	atagggtata	gagttttaat	ttactgtcat	120
tgaacaatttt	gcattgttta	ggagggtacta	ggatgatcaa	ctgattgaaa	aattcatcag	180
tgtgttaaatg	aatttttttca	ccccctttaga	tatatgtctga	aaacattttag	catgagttgn	240
attttaatac	caattttttca	atatttttttc	aaatttgagac	ataaaaaacta	aggcattttta	300
aataatctgtg	ctctaataaaa	aatatttttag	aaatatctcat	tgaatgctgct	ttttacacag	360
gagaacacaaa	agttataacct	caattttactt	gaaatggaat	atagtgggtga	cctcaaacaaa	420
aatgaagaaa	atatcckaaa	ttgttttgac	aaagctgtac	atgggttcatt	acctattaaa	480
atgagaatta	catttttctca	gagaaaagtg	gaatttcttg	aagatttttgg	ttccgatgtt	540
aataagcttc	tgaatgctta	tgatgaacat	caaacactcc	tgaagaaga	ggattccttta	600
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caggagactt	tgtattttaga	atatcttagt	aaactttgtg	aacaagcttt	cattttgatc	1440
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<212> DNA
<213> Homo sapiens
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1248



[illegible]

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<223> n equals a,t,g, or c
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<211> 821
<212> DNA
<213> Homo sapiens
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<221> SITE
<222> (816)
<223> n equals a,t,g, or c
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<220>
<221> SITE
<222> (820)
<223> n equals a,t,g, or c
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1250













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tactgttttg	aggggagaaa	gaacgtgaaa	tggtttgtgt	attattgaat	tttaagcaat	420
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cccgttatac	taaagctgaa	tgacaattgt	gtgaaagtta	ctgccttcat	aagatcaagt	540
caccactgtt	acacagctga	catatagtgt	attacctttg	cagctagtaa	actataaagt	600
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 <221> SITE  
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 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2054)  
 <223> n equals a,t,g, or c

<400> 2193						
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (935)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (938)  
 <223> n equals a,t,g, or c

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<210> 2197



<211> 588  
 <212> DNA  
 <213> Homo sapiens

<400> 2197  
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 ttgggctgga aaccagaggc ccacgatgct ctttgcctggc ttgaaatgc ccttgcaaaag 300  
 aagtattgaa aatttaccag cccacaatga gtctttttaa tctccttttc cttgctacca 360  
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 gttttttattg accctgattg aatttgaaat tgtaaggctg agagaggatt tgcaaaacat 480  
 ttgaatacat tttgctcacg gtattgtttt gtaacttggg ggaatttatc tttttagcca 540  
 atcagggttaa ggtcaataaa tttgggtttt aaaaaaaaaa aaaaaaaaaa 588

<210> 2198  
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 <212> DNA  
 <213> Homo sapiens

<400> 2198  
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 <213> Homo sapiens

<400> 2199  
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 ccttttgact gctaattgat gtttctgctt gctgtgcctt gttatggctg ctttttttgt 180  
 gctaataaag tatgtttggg gtttctcctt tatactctgt gttttataca tttgcaacaa 240  
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<210> 2200  
 <211> 2290  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2283)  
 <223> n equals a,t,g, or c

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 ctagaggaag tgaagttctg atggaatcat gcctgtcaaa tgaggtcttg aagcggatgc 240  
 ccaaataaaa gagtatattt tatctaaatc ttaagtgggt aacattttat gcagtttaaa 300  
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 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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 <222> (39)  
 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

<400> 2203							
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 <212> DNA  
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cacttgaact	tgggaggcag	agctttgcagt	gagccgagat	tgagccactg	cactccagcc	780
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<210> 2208  
 <211> 2023  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (486)  
 <223> n equals a,t,g, or c

<400> 2208						
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 <212> DNA  
 <213> Homo sapiens

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<210> 2210  
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 <212> DNA  
 <213> Homo sapiens

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<210> 2211
<211> 2637
<212> DNA
<213> Homo sapiens

<400> 2211
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<210> 2212  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1859)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1864)  
 <223> n equals a,t,g, or c

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 <211> 785  
 <212> DNA  
 <213> Homo sapiens

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aaaaa 785

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<211> 854  
<212> DNA  
<213> Homo sapiens

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aaaaaaaaa aaaa 854

<210> 2215  
<211> 753  
<212> DNA  
<213> Homo sapiens

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gaatacttac ttacatgttt tgtttaata tacttctgc atagtttaatt tttttaaaag 660  
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<210> 2216  
<211> 864

<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (251)  
<223> n equals a,t,g, or c

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tgagtgcgtt gaacaggaac acccagagcc ctatattgca agaggtttga actatgcaac 180  
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cctgaaccta ggagttcgag gcttcagtg gctgactgtg ccagtgcaact ccagcctggg 780  
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aaaaagaaaa aaaaaaaaaa aaæa 864

<210> 2217  
<211> 1863  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1825)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1836)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1837)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1851)  
<223> n equals a,t,g, or c

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gacagcagac ccaccaaata tctgctgcgc atgacagcag ggcagatcac ggtgttaact 420  
gtaatcatcc tggtagggag agggatattt tatactatag gacagatgga gagtgtgtac 480  
tgctttcaga ggtggaattg caggctacct gggaggcaat gaatttccgc aacctctcca 540  
aaagcaaaga tagaagacat gcctttctat ctcttcacct ctgatgcatt cagagctaca 600





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<210> 2222  
 <211> 1417  
 <212> DNA  
 <213> Homo sapiens

<400> 2222						
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<210> 2223  
 <211> 1389  
 <212> DNA  
 <213> Homo sapiens

<400> 2223						
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<210> 2224  
 <211> 1988  
 <212> DNA  
 <213> Homo sapiens

<400> 2224						
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 <212> DNA  
 <213> Homo sapiens

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 acgttggcca ggctgggtct gaactcctga cctcaagtga tctgcccgcg tcggcctccc 660  
 aaagtactgg gattacaggg gtgagccatc gtaccccagt tcatcaaata tcttaccgcg 720  
 attagcactt ctttggagaa gcttcctcag atctctagac cagactaaat cctcctgtct 780  
 taagctttta gagtgtgtgt cgccttttct ttccagctct tctcagaagt ggtagctaca 840  
 gatttgttga tttactttta gtctaattgc agtggtctcc agccttttgt cagctctgca 900  
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 catggggtag gtgcatgatg cacgctggga ctacacagac aaatggatgg ttgctgggca 1020  
 tggctcactg aggcactca acaggtacca gcaccattta ttttaagcga tcaactaacg 1080  
 aatgagttag agagtggctg gaatggatgt atagcactaa tttgtgagag aagacagaat 1140  
 gagaatgtaa ttccaaaaca atgagcaaac atcagaagaa ttgaagcaaa taactgcaac 1200  
 atttccccag ttgtccctct catgtgtctt aaaataaaag catttctgct acggagtcag 1260  
 gcaataaagt gaaaaagcca calaaaggaa gagcagtgac t 1301

<210> 2226  
 <211> 2192  
 <212> DNA  
 <213> Homo sapiens

<400> 2226  
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 cacctcctca gggacatcct gtacagcact tccacactcc ttgatgccc agagctgcca 120  
 cactcgcttg attccttgcc ttccagctct tctgcaacca gatgcagcca ggcctcgctt 180  
 cccatgagtg tccctaagtc cagggcaggg tctgggtccc acccaccgga ggcagcagca 240  
 tctagccctg ctctcctctg caccctctca ctctcagcc atggacacac aggccaggt 300  
 acggttcttg ttcatttttg ggatgtggag agccacgaac acaccaaagc ctcttaggtg 360  
 tctgctacag ctctgacca cgcctgggac ccagaccca gaccctgtc cacctgagcg 420  
 ccaaaatctc tgggtgcccag gaagctttct gattctgcct tcaaagtatt tcctggacca 480  
 ttgcatgtgg caccacccc tgggtctgct ccagccctgg tgttgccatc tgttctcagc 540  
 ctggggctac agggaccca agcctctctg ttttggtctc aaccttgca agccatttc 600  
 ccaactgactg cccccctcca ctgtgtctac aattgtctgc actccctcat gctgttctg 660  
 agctgttgaa catgccctct gggatcctgc ccacggcctt cccggctcctt accttcttta 720  
 ggcttttgtt caaatctccc atcagcttgg cgcctcaggg agcctctctc atggtgtgct 780  
 tgcccgaaac ctaggtggaa ggttcttcat cagagaaacc ttggaagagc agcaagcctc 840  
 ggtacattta aagccctcag cggcgctcgt tcctttgagg gttctgggat ctgaagcctc 900  
 tgaaccgtag gagcagctag gggaggccgt gcccctgtgt gaaggggctc cttgtgccag 960  
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 ggcacgcagt gggaggccat gggcaagggt gatggcccat gggggcggcc cctttgtctc 1080  
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 aggggaagtcc cgggtgacaag gggcatcagc aggggtcaga ggggtgtgcc caggaggagc 1200  
 cctctgcat tcttcagggt gcatggaacc cacaccctgt ccccaaagat gccctggaca 1260  
 tgccctgggg tgggggggtg ggggcagcac atgccaggct gccacatgtg tgtgtggcct 1320  
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<400> 2228
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tgccaccag tggccgcttc attgtcatca tcccaaggac agtgatcgat ggcctggatt   120
tgctgaagaa ggaacaccca ggggcccggt atgggattcg gtacctggag gcagagttta   180
aaaaaggaaa cagggtacatt cgctgccaga aagagggtggg aaagagcttt gagcggcata   240
agctgaagag gcaggatgca gatgcctgga ctctctataa gatcctagac agctgcaaac   300
agctgactct ggcccagggg gcaggtgagg aggatccgag tggcatggtg accatcatca   360
caggccttcc actggacaac cccagcgtgc ttccaggccc catgcaggca gccctgcagg   420
ccgctgcccc cgccagtgtg gacatcaaga atgttctgga ctctacaag cagtgggaag   480
aaattggttg atactgacct ccaggccctg cagtggggct gactccagat ctctcctgcc   540
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acacaggagg gaggcctagc tgctcagagg ctgcaggagg ggcccaggag ccggctggga   660
gggtggggtc cctttgtgtc caagacgtta ggaaagcgag gaaagtgtct ggattaggag   720
agtcttgtgg gcccctggcc agccttctct cctcagctcc cctgctgtct ccaggggcag   780
gtggtaggca tgggtacctg catttccact gaatgggttc ttggatctct gaggggaagg   840
aacagcaaaa gaggcccttc ttctcacc ccaggtgcagg gtggttgggg ccaggagt   900
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agacccttcc cctcctcaag gatcacccat cctccttcca gccccttta tggggaccag  1020
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ctagggtctg aggcagtctg gcctgtgcca gcacggtctc ctgtgcccac cagccccaca  1260
ggtgctgtgc tttgtgctct tggctgctgt gctgggacag aatgggatgc caggaagaga  1320
agaaaggggg tgcagtctga ggccaccacc ccccttctta tctaagggag ggctgaagac  1380
aagggggccg cattcagtgg gcagcagaaa ggagaggctc cttgaagctg ctcagtcaga  1440
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agtgttgagg tgaatatctg ggagcagaga tcatgaatag ctcagggcag tgaatggcgc  1560
accaagagca gggctgtgtg tgggaggctg cagccaggat tgcctcagct cctccccctc  1620
aggctgggag gatagcacag gctaggggct cgggggtggag ggtctcagct ctgctgcccc  1680
caccaccagta ctagecctagc ttcccaagct gtggcttaga ggatagttgg cttcctgcct  1740
ctctcctcta aaatagcaag tctgggaaat cctgggggtga gtggagtcac cccactccca  1800
gttgctggga gagactgaga ctaaagcatc acttaataaa cccccaagc ccaaaaaaaa  1860
aaaaaaaaaa aaaaaaacct gggggggggc ccc

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<210> 2229
<211> 2108
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (78)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (219)
<223> n equals a,t,g, or c

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<400> 2229
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gagcctgctg cagcagcnca ggcacagttc cgaatggcac aggaggaagc tcgtcggaac   120
aggctcatga gagacatggc tcagctacga cttcagctcg aagtgtctca gctggagggc   180
agcctgcagc agcccaaggc ccaktcagcc atgtctcctt acytcgtccc tgacaccag   240
gccytctgcc accatctccc ctgtcatccg ccaactggcc accagtggcc gcttcattgt   300
catcatocca aggacagtga tcgatggcct ggatttgcct aagaaggaa acaccagggc   360
ccgggatggg attcgggtacc tggaggcaga gtttaaaaaa ggaaacagg acattcgctg   420
ccagaaagag gtgggaaaga gctttgagcg gcataagctg aagaggcagg atgcagatgc   480
ctggactctc tataagatcc tagacagctg caaacagctg actctggccc agggggcagg   540
tgaggaggat ccgagtggca tggtgacct catcacaggc cttccactgg acaaccccag   600

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aaacctggag	gtctttatta	cctgtagcct	tattacgggt	tcgaatggcc	ctaagggaaa	960
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aatagacata	gatactttca	agctacagaa	ttatgtgatc	aacttasgac	aagtgcacaa	1080
cgcactcctt	gactatggna	atcagagact	ccctncccc	actgaggaag	acaatgtggt	1140
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tcaactttcc	cccccaagtg	aggggactct	atcaagttct	ccttagtacc	ccaactacag	1260
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<210> 2235  
 <211> 805  
 <212> DNA  
 <213> Homo sapiens

<400> 2235						60
ggaaaagtag	tgaaactggt	cacagatggg	atgatcttat	atgtagaaaa	atctaaggaa	120
tctactataa	aaaccagtaa	actaataaat	agggttcaaca	aagggttcaga	atacaaggct	180
aatattaaaa	aatgagtagt	atttctatag	agtagcaatc	aacaaaccaa	aaattaagaa	240
aacaatttta	tttataatag	gat.caaaaaa	ataaaatact	taggaactta	agtgtaaaac	300
ttatactctg	agaattctaa	aacatcattg	aaagaaatta	aaccctaaat	aaatgtaaag	360
acatcccatg	tctttgaatc	agaaaattaa	tattgttaag	ataatgatag	tcccattctg	420
atctatagat	cagccttaca	gat.tcaacac	aatttctgtc	ataactctca	gctgactact	480
ttgcacaaat	ggagtagctg	at.cctaaagt	tcagtgtgaa	atgcaggaga	cttgatttaa	540
caaaaacagt	cttgaactag	gccgggtaca	gtgactcatg	cctgtaatcc	cagcactttg	600
ggaggctgag	gcaggaagat	ca:ttggcct	caggagtttg	aggccagcct	gggtaacata	660
gtgagacccc	tgtctctata	aaaaatttaa	aaattaggca	agcctcgtga	caccaccta	720
tagtcccagc	tattcaagag	gct.gaggtg	gagggtagct	tgagcccagg	agtttgaggc	780
tgcagtaacc	tgtgattgtg	ccactgcact	ccagcctggg	tgacagcaag	actctgtctc	805
aaaaaaaaaa	aaaaaaaaac	tcgag				

<210> 2236  
 <211> 1538  
 <212> DNA  
 <213> Homo sapiens

<400> 2236						60
ggcagcagcc	caggtacctt	gt.jacactgg	agtgtcatat	tagccctgga	ctacccacct	120
cctgacctca	tgatccaccc	ac:ttggcct	cccaaagtgc	tgggattaca	ggcatgagcc	180
accgcgcccg	ccaccttgat	tattgtttta	ataaaagatg	aataaaagta	cattcttatt	240
tttgattata	atgtggccca	atgtatatac	ttcacttagt	gtagcacatc	acattgttct	300
tactaaaact	atttctagtt	ttacaccagc	tcagattttt	aaatattcat	tgctttttcc	360
tactttctgtc	tcaggcattg	ccattctctt	caaaacatat	ttgaaaaatg	tccaggcttc	420
tcattctctgt	gtaaaactgt	tcagtttgtt	ccagtgtgac	gagaaaaatt	ggactgagca	480
tacttttttg	tgagacatcc	attttcttcc	tttgatgaat	ttgacaactt	gtgacaattc	540
tcacattttg	gaacaagtct	cctaattata	gaagaagcta	ataatgataa	tataagaaat	600
tataaattat	ttgactgttt	tcaatttata	caaaagggaag	tttatcaaac	tttctcctcc	660
tactttctgc	tccaccccac	ccctcagccc	cgatgcacac	gctgtgccgt	cacagcactt	720
atgcctagag	aattatgata	cttaaatagc	agtcaactct	tcttaaatag	cagtcagttg	780
ttctagcagt	gtatcagtta	gacattctag	aatatttcac	aaaataagaa	ttttgcagaa	840
ggaacattat	agctccctag	gtctagcaaa	tgagggaact	agggtacaga	gaaattaagt	900
gacttaagat	ctcacacaca	actagtggag	tacttctact	taaatatatc	tctagatact	960
catagaaggt	aaaagctaca	ttgaaaattc	acacaactct	tctggaaagt	ggcaaattca	1020
atgatgctgt	aaagtctggc	ataatattct	agtgggtcaag	acactttggg	tagtaaatga	1080
gagaggccaa	attcaaatca	ggctaagaat	aaaaagaaat	gttttctttc	aagtgggtgg	1140
agctcaagta	agtgtaaatt	ccaggggata	aattggattc	aggcatagct	ggatgcaaag	1200
gctcaaaaat	gtcatcagaa	tctgcctctt	tttctctctt	ggtgttgctt	gccactgtgt	1260
tgctctcatt	ctcaggtagc	ttgactcaca	cagctacaac	aatggcttat	atcctaattg	1320
ttgatcagcc	acagggcaga	gtacactttt	cctcagtggg	ccaagcaaaa	atcctggggc	1380
tcactcttac	tggctgactt	ggatcagggt	tccttctgga	gcacaacaca	gtgactccag	1440
gtggccaaagc	ttgaatctca	tgccacatcc	ctaccaccag	ctccactaaa	aagaaccaca	1500
tggacagaag	gggaggagtg	gt.tacaaagg	gaaaaataaa	tgtttattac	ccagggaggg	1538
ataatgaatg	taaggcaagc	aaaaaaaaaa	aaaaaaaa			

<210> 2237  
 <211> 698  
 <212> DNA  
 <213> Homo sapiens

<400> 2237  
 gtaaggcctt atcatcttta cctctagatg aatagatgtg aaaacccatgt atagtatgta 60  
 tgtatatgtt agtgtgtata tgtgtcttta tcttaaatc ttacatttgt tgtatctatc 120  
 tagtgctcag tatgtttatat gatagtacaa catccaaaat ggatcaagtg tgagaaaattt 180  
 atttcacatc aactttcaga ttgcaatgtt tattcagtat ttattaacac acatgggaaa 240  
 tattataaaa ttatgtcttt ttttagattc tctttaaatg atattttccc ttagaattct 300  
 ctgtggctcc catgaaattc taaggtataa ttaaagtcaa aaataagatt ggattctagt 360  
 tgcttttacc cctaaattta aaagtgatat ttcaacacta aattctatac tttacctaata 420  
 ttgattacaa agatgaacca cataatctca gcattagcct caaaggcaaa ctcaatcata 480  
 atagaaggaa cacaagcttt gatgagatct ggatttcagg cttagtgttg tcaaactgaa 540  
 ttaactgagc cttgtgacac acacctgtag tcttagctac tccggtgact gaggcaagag 600  
 gatcgcttga gcctagaagg tggagactag agtgagttgc gtttgtgcca ctgcacctca 660  
 gcctgggtga caaagtgaga tcttatctca aaggaaaa 698

<210> 2238  
 <211> 525  
 <212> DNA  
 <213> Homo sapiens

<400> 2238  
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 gggcacagga gatggctgca cctcctgcag agttaacctt ggctgagcaa gaggtctcag 120  
 ggctgggcac cagatcaacc tcataccctt aagtgagggc atcattaatg tctgtggcct 180  
 gcaagtcgag gcatgcaggc agtcactggg tcaacatctg agcactcctg gaccagaacc 240  
 agtgcattcc agaattcttg aattgaggat actaagacag ggattcataa tgccctctgc 300  
 ttgatgtgct ggtggttgcc aggaggcttg gcttcagatt cagaggaaga taccaaaaaa 360  
 ctgatcgttt ccttgaattg gcttttctat ttacttcgtc tgtgtctctc atattgaata 420  
 tcctaagaga gatgctggaa tattttggcg ttcctctaga agaagtttta ccgattggag 480  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 525

<210> 2239  
 <211> 861  
 <212> DNA  
 <213> Homo sapiens

<400> 2239  
 aattcggcac gagtgcaccc caacataccg tgtttaactc ttctgtcttt tgtttttgct 60  
 gctatttata ttttcatttg atatgtttta taatgtttgt ccctagagtt gtcctttatt 120  
 gaatacaagg gtcttttctc aattgctata atgtctgtta taatccagat gtagatattt 180  
 gaacaatgtg aatacacatc ttlatgtgta ttatcttaag tgctgtttta tattaaagtg 240  
 tatttaaaat gaccagattt caaattagtg cagttttgag atattttgta cttagggtctt 300  
 accaggatag cacctgtgtt gtaatttatg ttgggtatgt ttagatctgg tgtttccttg 360  
 gttttttgct gccgtatctc aagtggctag atttgatatt tccctatccc tgatctgaca 420  
 tttttatgtg accaagtttc tgtagcattt tgttgaacac cagggtactgt tgccactgtg 480  
 cctaacccta ccatctccac tccatgctat ctcttacttt acatgtaaat gacagttatt 540  
 ttagtcactt ttcacaatgt gaaatgtttc taggacactt gtccatgaac aggagcaaatt 600  
 tgaaatttga aatgatcaca tctgattgac ttgtaattag aggatgtttg ggtgtggttg 660  
 aatgtattgt atctgtactt attgaaaaac ctgaaagacc tggactcact atgttttggt 720  
 ctgcaacctg gttagtcagc tacgtggaag tgaccagaga gttgaaagcc aatttattta 780  
 tccctccaag atgaataaaa cataaattac tcttctagca aaaaaaaaaa aaaaaaaaaa 840  
 aaaaaaaaaa aaaaaaaaaa a 861

<210> 2240  
 <211> 571  
 <212> DNA



<213> Homo sapiens

<400> 2240  
ggcacgagat aagatctagc tttgcattaa ggaagctaga aactgaagat tgctatgtag 60  
tctatccttg atcattcctt gacaattaga gaacaaattg agcatggacc atttatcccc 120  
tatttatatg caaaattggt ctaagtaagt attgatgatg ttctctatag aaatttcaat 180  
cactcacttc cttgtctggt ctctacaca atattatcag ctctgctgca ctttccctca 240  
ttggtgatcc ctgcaggaaa ataggagata aggtcaattc tagttgactt ttatgagaat 300  
atgattatag caggctttct ttagttattg gaatatgtga taagttagga caaacaatta 360  
tgcagcaata aatttatctt ggttggttta agttcatgtc aaaaattcag acatgctaata 420  
gttggttagct aagctcacac aactacctgc ttatttaca aacttgcaatt caggaataaa 480  
tgattgggat cttatatggc aagtgcagta tgccagctca acaggagcag acgctctgtg 540  
catttgcaac tacaaaaaaa aaaaaaaaaa a 571

<210> 2241

<211> 446

<212> DNA

<213> Homo sapiens

<400> 2241  
ggcacgagaa aacatataca tttattttaat ataagtttat gtggcatgaa aaccttcaga 60  
atgtgtgaag acccaaagat gcagtttgta ttgaccactt atataaggaa ttagacaaaag 120  
agcagtaaat tgcagaaatg tgatgagggtg gggggtcggg ggcttgggcc agggcaggtg 180  
attggaggag aatggctggg aagggaagggc cagtatagca ggtggtacag gtttccctca 240  
gcctcagctt ctggctcctt gccataggaa tcatgcctcc cacctggcca agggaggaca 300  
cctttcacat gggaatgtca tctcctgctt ttcagaaaca gaaggaaggc cagagtgtc 360  
ttcttgtagc tgctttttgt ttttggtttt gtttttggtt ttgacagagt gagactctgc 420  
ctcaaaaaaa aaaaaaaaaa aaaaaa 446

<210> 2242

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2242  
ggctttttga aataacttag acaaataatt tcacacaata ccagcataaa caagtataaa 60  
cccgttcaca ttaaccaggc atccttaggg aagattctaa tggcctgaat ggacatttca 120  
attacatata tgttgatcat gtgtattttt ctagtaagca ctagtacctt acttgccctc 180  
ccctgattaa acaaaaactg aaggtataaa acctgcccaa atggaaacct attttttcat 240  
agaaaaacatt gacaattata ttttcattgt attctatctc tgttttctaat gcatttttct 300  
catattcata acagggggaga tagagttatt cttcttaaaa gagttgatca aaactgggtat 360  
gaaggtaaaa tcccaggaac caacagacaa ggcattctcc ctgtttccta tgtggagggtc 420  
gtcaagaaga acacaaaagg tgcctgaggac taccttgacc ctccaatacc ccacagctat 480  
tctagtataa ggattcacag cttagagctca aataaggtaa gaacatactc tatcatgtta 540  
atgtaatat ggaagctcca agtaagataa tcggtgtgtg actttaggat attagattag 600  
aatatcatat ctattgcaga gaaagagatt tacatattat gtttctacat gtgtgagtgc 660  
cacatcagta aatataagtc agtggtttctc aaatagggtgc tggcataaag atttaaatgat 720  
taattttgct catttcattt tcaagttaaa atatcgaaaa aaaaaaaaaa aaaactcgag 780

<210> 2243

<211> 464

<212> DNA

<213> Homo sapiens

<400> 2243  
cggcacgagc tgggtttctac atggaagact aaactcatgc ttattgctaa atgtggtctt 60  
tgccaactaa attttaagatg cagcattttta gaaatttaca tatcaatgtt tctacagtat 120  
tggtttgctaa ttttttaata aagtcattgat cagtgtgcat ttgtgattat atgtgtactc 180  
attctcttac ctagcgaaca agatcttttc agagtgggtg ttctaaaaga gcatgtacaa 240  
aagtggcctg tggacattta ggcttgggtg atgcatttgc tcttctgtt tgtgccaatg 300  
tatcaatgta gagttgctct gttttcttca actgtattta ttgctgcatt tctcagcata 360





<210> 2249  
 <211> 1122  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (63)  
 <223> n equals a,t,g, or c

<400> 2249  
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 gantttgtat gcaccgtgat tcaaataatta taacaaaaat catcgatcat gtgttaggca 120  
 ctttacagtt cccaaagcac tttcccatcc atgccctgat gatccttgac acaacactgt 180  
 gatgtggggt ttattatttc cagtacagat gaggaagact gaggcctgca tcagtgaagc 240  
 aacctatcca agactacata gagaaggcag taaatggcag ggtagtctc agaacagggg 300  
 agggctctgt ccccccgcag tgggcagtcc taattctgaa cttcacctat ctgggggtga 360  
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<211> 2331

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

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<400> 2269

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<211> 643

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1127
<212> DNA
<213> Homo sapiens
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<212> DNA  
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<212> DNA  
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<210> 2285  
<211> 1512  
<212> DNA  
<213> Homo sapiens

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ccgcagact cagcagatac tcctgcggta acacactgtg ctggaaaacg cctggagcca 180  
tgacacatta tgtattttta ttattattta tggtaggaag aggagatgag ggaaaatcgg 240  
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ttcttacaag acaattagaa attctgccta tggatgcaaa tttcatagaa aacaatgtta 420  
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ctacaacata tatattttta acctgctcag ataaagtga atttagcaaa aggatatccc 540  
ctcccacccc caaatctaac atgccatttt aaaaacagca caaaggaaaca aggaaactaa 600  
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gttccaccag aagattagaa gttaaattat ttccacacaa taggaatttc acttcgtgtc 720  
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aaaaaaaaaa aa 1512

<210> 2286  
<211> 946

<212> DNA  
<213> Homo sapiens

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cccagggctg tgctcattca agccaaactc tctgagatgg aagaggtcaa accagccagc 180  
tggtgggtgc tggtcagcta cggagtcctc ttggtcaccc tgggagcctt catcttcggc 240  
cagaccacag ccaacgccat ctttgtggat ctcttggcat aaccactgcc tcccagggaa 300  
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cctcaggagc ctggccactt ccaacggtag cactgaagtc atgcaaatgc atagtcaggt 780  
agattcagac cttgtccaca ccttctctgg caacccccac catgaacctg tcagcctctt 840  
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 946

<210> 2287  
<211> 1570  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (412)  
<223> n equals a,t,g, or c  
  
<220>  
<221> SITE  
<222> (502)  
<223> n equals a,t,g, or c

<400> 2287  
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gtcctgggggt tctctttttc caaatattag gataatgcaa atattcctgc tcatgggtgga 180  
cgcacactgt gtttacatca gtcaaccctt caaacatgag tcagagaaat ctttctctaa 240  
atgaagggtgc catttctatt gacagctcaa cttcgtaaag gtatgacttt gagttgtttt 300  
gactagtaga aagaaacatt tgcccytttt tgctctgttt ctgtatttag gctttcactt 360  
gtcctagcca agattattta gatcccata cggragggtca aatatgttaa angctaaata 420  
attagattct cttgattttac acaaaaaaca taactaacta aaatagaaac ttttaattat 480  
ctgtattgtt gtataaaatg tnttatatat taggaatcta aaaatttggt ttttgcttgt 540  
atcctctgtc ataggaagaa actcatgtct ctgtttactg taaccattaa taaaggctaa 600  
taacagacag tacatgatga tacttttaac tagggcaaac aaaagtaata ttttaacaat 660  
gaggtttggg ctttgcctatc tatacctcat gtctaatttt ccctacaatg taaatgtcat 720  
tctctctctc taccattttg taagggtctc agttttctgc tcttgcatga cttattttaa 780  
agggtcacaa taaggccagg taattcatat ttaaaaaatt ccatttagaa taattacatc 840  
taaaaattca caagaaagac aatttcaata taaaataata aattactaat attggaattt 900  
caagcatkag tcatggcaaa aaagagataa tttgtagcag aatattttta tggcaacttt 960  
cttattctat cacttattgt gttctatttg ttatgaccaa agaaattact ctatatccac 1020  
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aacaggcttg tagaggagga agatctcaac agagctgact cttatctgtg ctcacattca 1380  
aaactgactt ttgaacaaaa gctgcacctt ttgccctata ctatagtccc aactactctg 1440



<210> 2289  
<211> 2220  
<212> DNA  
<213> Homo sapiens

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gaagtaagtc ctgggtgagga tatgactcac tgttcaccac agaagacttc tcctctgacc 180  
aagattacaa gtggacacct gagtcagcag gacctggaat cccagatgag agagcttatc 240  
tacacggact cagatcttgt tgtcaccccc attatcgaca atccaaagat aatgaaacag 300  
ccaccagtta aatttgatgc aaaaatattg catctacca catattcagt ggataagtta 360  
ttatttctga aagatcaaga ttggaatgac tttttgcaac aagtgtgctc gcagatcgac 420  
tccactgaga gagcatgggg gcctcccgag ccaagctgaa tctcctttgc tatttgtgctg 480  
tggtggctgg tcaccaggag gtggccacca ggctcctcca tccccctg ttccaattgc 540  
taatccagca tttgcggata gctccaaact gggatatacg ggccaagggt gctcacgtga 600  
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catcaacagt tcaagtga aa cagctgaagt tgtgtctccc cctgatgcct gtagtgcttc 1560  
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cgatgactga acacaaccca actttcacaa ggtactggaa gttcaaattt ctttttcttg 2100  
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aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220

<210> 2290  
<211> 1721  
<212> DNA  
<213> Homo sapiens

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gcagggtttg aatgctgctt tgttttatga gaataaagat ccccgactt ttgtgtcttt 120  
ggtacctacc tctgcacata ctgggtgatgg catgggaagt ctgatctacc ttctttaga 180  
gttaactcag accatgttga gcaagagact tgcacactgt gaagagctga gagcacagg 240  
gatggagggt aaagctctcc cggggatggg caccactata gatgtcatct tgatcaatgg 300  
gcgtttgaag gaaggagata caatcattgt gcctggagta gaagggccca ttgtaactca 360  
gattcgaggg ctctgtttac ctctcctat gaaggaatta cgagtgaaga accagtatga 420  
aaagcataaa gaagtagaag cagctcaggg ggtaaagatt cttggaaaag acctggagaa 480  
aacattggct ggtttacccc tccttgtggc ttataaagaa gatgaaatcc ctgttcttaa 540  
agatgaattg atccatgagt taaagcagac actaaatgct atcaaattag aagaaaaagg 600

agtctatgtc	caggcatcta	cactgggttc	tttgggaagct	ctactggaat	ttctgaaaac	660
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tcccaacctt	tctctacttg	gctgtgtgtt	taaagtgtgc	ccttcccca	atttggattt	1620
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attaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a		1721

<210> 2291  
 <211> 2267  
 <212> DNA  
 <213> Homo sapiens

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tgcaagggag	acccctcaca	gcccgagggt	agaagatgcc	cctattgcta	aggtgggtgt	180
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caagcccgaa	gttcctgagg	atgtcgatct	agatctgaag	aagctaagac	gatcttcttc	420
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agaacagata	aagagaaatc	ggtattatga	tgaggatgag	gatgaagagt	gacaaattgc	960
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agtgtgtact agttta 1876

<210> 2297  
<211> 2202  
<212> DNA  
<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

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<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (245)

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 <211> 743  
 <212> DNA  
 <213> Homo sapiens

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<210> 2306  
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<212> DNA  
<213> Homo sapiens

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<211> 1154  
<212> DNA  
<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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<220>  
 <221> SITE  
 <222> (1616)  
 <223> n equals a,t,g, or c

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 <211> 688  
 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> n equals a,t,g, or c



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 <212> DNA  
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<210> 2317  
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 <212> DNA  
 <213> Homo sapiens

<400> 2317						
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (22)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (38)  
 <223> n equals a,t,g, or c

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 <211> 890  
 <212> DNA  
 <213> Homo sapiens

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tgacagccct	tttgactgtg	acactggaca	tgtgcaaagc	ttggggactg	atcaaaaagt	300
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<400> 2325
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tttaattctc tcaaccattt tatgacgtct gagggccactg aagcagctag aggttaaacc 240
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gtgcttttggg aggccaaggc aggaggactg cttgagccca ggagtttgag accagcctgg 1560
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<210> 2326
<211> 1228
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (636)
<223> n equals a,t,g, or c

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gtcttaaaaa ttgtattttt ttacaacttc ttaggcataa cttgtttcac agttgtcgga 180
acaaacctca tcaaccaggt ttttgaacag tagaatattc tctttgagaa aaagataggt 240
aattagcatt ttgttctttc tcatgtcatt ttccttggaa actatactgc cttccttctc 300
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1228

<210> 2327  
<211> 787  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (293)  
<223> n equals a,t,g, or c

<400> 2327  
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gaggaragtt taccatattc tgtgactatt ttataccaaa attatgccat gctttctaag 180  
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<210> 2328  
<211> 1131  
<212> DNA  
<213> Homo sapiens

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acacactagc cttcttttgt acttttcatt ctggatgggc ttggccaaaa caggctcagg 660  
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tgccaagggt aaacaagcct gatttaggca ctgctttatc caggggcttc acccatgaaa 780  
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<210> 2329  
<211> 1133  
<212> DNA  
<213> Homo sapiens

<400> 2329  
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<210> 2330

<211> 962

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (41)

<223> n equals a,t,g, or c

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<210> 2331  
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 <212> DNA  
 <213> Homo sapiens

<400> 2331  
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 aagttactac gagtctgctt gaatataaac acagatttta gcatagagtt ggaaggaatt 180  
 tttactttct agttaagagc atcctgctcc agcagagtga aatccatacg gttatgcctt 240  
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 atatttcaag tcccctgtaa ataaagatgc cttggaaatt atcatagtat tttaaatagt 540  
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 <212> DNA  
 <213> Homo sapiens

<400> 2332  
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 cagaaacagg ctgttagtat ctgaggcctc agctccattt ctgggcctat tgtgagggat 420  
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 <212> DNA  
 <213> Homo sapiens

<400> 2333





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 <211> 793  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (15)
<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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aaaaaaaaaa						489

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 <212> DNA  
 <213> Homo sapiens

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 <213> Homo sapiens

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<211> 1913

<212> DNA

<213> Homo sapiens

<400> 2379

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<212> DNA

<213> Homo sapiens

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<211> 2792

<212> DNA

<213> Homo sapiens

<400> 2383

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<212> DNA

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<212> DNA

<213> Homo sapiens

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<212> DNA

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<212> DNA

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<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (28)  
<223> n equals a,t,g, or c

<400> 2406

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<211> 1768

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1327)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<221> SITE

<222> (1478)

<223> n equals a,t,g, or c

<220>

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<222> (1543)





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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 2412						
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<212> DNA  
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 <212> DNA  
 <213> Homo sapiens

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caagctaagt	aaaagaattt	ttaaaaatta	gagaaagact	ttctgaaatc	ttttttcttc	1560
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 <212> DNA  
 <213> Homo sapiens

<400> 2424						
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gaacatatca	taatcattgc	acaaataaacc	atgttctttg	gtaatgaagc	cagaaaagaa	420
agcgcaaaag	aatgggtgact	catttggtgact	cttatctgtc	ttggaatgtc	actgtttcat	480
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0050003-04204

<221> SITE  
<222> (1214)  
<223> n equals a,t,g, or c

<400> 2426  
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<210> 2427  
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<212> DNA  
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (2017)  
<223> n equals a,t,g, or c

<220>  
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<222> (2029)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (2034)  
<223> n equals a,t,g, or c

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aatgtagatg	atgatgaatt	aagagagtac	tgtattcaag	cctttgaatc	atttgaaga	420
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 <211> 389  
 <212> DNA  
 <213> Homo sapiens

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<210> 2429  
 <211> 2027  
 <212> DNA  
 <213> Homo sapiens

<400> 2429						
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<210> 2430  
 <211> 1345  
 <212> DNA  
 <213> Homo sapiens

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 <222> (1324)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1326)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1338)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
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 <223> n equals a,t,g, or c

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ctttccctgg	tcaccaagtc	tgcccactaa	gtcccccctg	acccctgcag	gctgtcacat	360
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 <211> 1040  
 <212> DNA  
 <213> Homo sapiens

<400> 2435  
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 aaaaaaaaaa aaaactcgag 1040

<210> 2436  
 <211> 2364  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (89)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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<211> 524

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> n equals a,t,g, or c

<220>

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<222> (37)

<223> n equals a,t,g, or c

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<210> 2438

<211> 711

<212> DNA

<213> Homo sapiens

<400> 2438

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tagtagttgc	tttagagttt	atagtataaa	tgtttaactt	cctcctcctg	gctttcatgc	660
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 <212> DNA  
 <213> Homo sapiens

<400> 2439						
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 <211> 1161  
 <212> DNA  
 <213> Homo sapiens

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<210> 2441  
 <211> 1255  
 <212> DNA  
 <213> Homo sapiens

<400> 2441						
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<210> 2442  
 <211> 2204  
 <212> DNA  
 <213> Homo sapiens

<400> 2442						
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 <211> 1409  
 <212> DNA  
 <213> Homo sapiens

<400> 2443						
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<210> 2444

<211> 2389  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (314)  
 <223> n equals a,t,g, or c

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<210> 2445  
 <211> 1338  
 <212> DNA  
 <213> Homo sapiens

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 ggaaaagggt tgcttttagct tatgcataga caattatttt aatgtcacta ttaaaaaaaa 180  
 taatttctta atagttaaata tatcacattt acatagatta atttccaatc atgcatattg 240

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aatttccact	ttaaaaaact	gagatcctga	ttactgttat	agtaagatga	catatcggtt	480
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taggcctact	aatttttaagt	taaatttaat	ctatgatatt	ttgtagtttt	tactactttt	660
taaaatgaga	ttttcctttt	gcatacctat	ttctaacatg	aaattgttag	cattaaaaatc	720
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gaattttttt	atctatcttg	aaaaagaaac	tggctatagc	tttctgtgat	agctttatca	1260
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aaaaaaaaaa	aaaaaaaaa					1338

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 <211> 1081  
 <212> DNA  
 <213> Homo sapiens

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gcacttcac	ctaacaactt	ctccatactg	aggcaacatt	tttaaataca	cagagaatgc	180
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gatatatatg	cactatggaa	tactaagcca	taagaaggaa	tgaataatg	gcatttgcag	420
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aatatttgga	attgaggtat	ctaatagaga	actgagttaa	attattgcca	cttaaaaaca	540
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gtttataacc	aaatcttagt	ttataacaac	aaatgtgtat	tgtaatttcc	cactacaagt	660
ttataacgac	attgctggat	gctacactcc	atgtctcttt	gtgggaccca	ggctcatggg	720
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tagacatgat	ttcttggttc	ttcttcatca	tttcttactg	tgttacctaa	actttctgag	1020
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a						1081

<210> 2447  
 <211> 1877  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (854)  
 <223> n equals a,t,g, or c  
  
 <220>  
 <221> SITE  
 <222> (1422)  
 <223> n equals a,t,g, or c

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aacatctcac aagggatgtt agatattctt ctgtggatag atcttgcaca tgatgacctc 240  
ctgggctctc ccagccctgt gattctgaga tcacatgccc attcaggaat cctcactgtc 300  
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gcagaacagg ggtatggtttt gggatgaaac cgttccactt cagatcagat catcaggcat 780  
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aaaaaaaaa aactcga 1877

<210> 2448  
<211> 1352  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1333)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1341)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1350)  
<223> n equals a,t,g, or c

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ggttcattcca tttgtttggt gttttaaatc ttatgtggtt gagtttggtt tcatgtcagt 180  
gtttattttgc cttttgtttt caaagataag accacttaaa ttattagatt atttgaattc 240  
tccttaagtt ataagttctg tcctgctata tcagttatct aagtatttag aaatggtaga 300  
ctaggggacc taggttttct aaacttttct ctcttttact taggtgtgca atatgaataa 360





tcagcttcca	ctgccgtctc	cacaggaaac	ccagaagttc	tgtgaacaag	tccatgctgc	480
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aaagctggta	cggggcgcca	ccctggacat	cgtggatggc	atggctcagc	tcatggaagt	600
actttccgtc	actccaactc	agagccctga	gaacaatgac	cttatttcct	acaacagtgt	660
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atatccacct	atgtgtcacc	tgaccgtgcg	aatcaattct	gcgaaacttg	tatctgtttt	1140
aaagaaggca	cttgaaatta	caaaagcaag	tcatgtgacc	cctcagccag	aagatagtgt	1200
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gagtgaactt	gaattatgac	ttttcaggct	catttgtact	ctcttcccct	ctcatcgta	1320
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<210> 2451  
 <211> 1241  
 <212> DNA  
 <213> Homo sapiens

<400> 2451						
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ccaaccctg	tactatgcca	tgccataact	acctcatagt	gtggttgta	gatcagataa	180
tcttctatag	aatttttagt	actgtccycc	atgcatatta	agtacccaat	aatgtamct	240
attatgtttc	aagcaccttg	tttccaatg	tacttagtgt	ttttcccca	ttttgagcgg	300
atatagtaag	gactatctat	gtcttttgca	ccattgtatg	tacttgtctc	gtaggttgct	360
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aaattattat	ccatatagtg	aatacatatt	tcctccatca	tacatcagtt	gtcttttagc	660
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gatggcttga	gcccaggagg	tcaaggctgc	agtgagccgt	tattgcaacta	ctgcactcca	1200
gcctgggtga	cagaatgaga	ccctgtcttc	aaaaaaaaa	a		1241

<210> 2452  
 <211> 1054  
 <212> DNA  
 <213> Homo sapiens

<400> 2452						
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ctggtttggg	gactggaggg	ctggcagcag	cctgtcaccg	tgcgaccgtg	accacctggc	120
atgggcttcg	tggcctgtct	tcaggaagtg	ggtaagccc	tgggaaccct	catccatgag	180
agctcgatcc	cgtatgaagg	gtgtgcgcg	ccgtgccatc	tggccccggg	gtgacttttt	240
gaactgttta	ttatatgggtg	gatgatgatt	tcattctcacg	tgctggacgc	tgttctgttc	300





agggacatga	acagctaagt	cagaaaagaa	gacatatgat	caacaaatag	attwagraaa	1140
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<210> 2456  
 <211> 893  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (859)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (875)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (884)  
 <223> n equals a,t,g, or c

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aaagtccaag	tgtaggcttc	agaggagagg	agccatagat	agctttcatc	agattcttga	180
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ttgcagaatc	agaaaaaaat	ttttattata	ttgtttctga	aatgttaaca	tttaggtgaa	420
atgcttaatc	aggttgagta	tcacttacct	gaaatgcttg	ggaccagaaa	tatttgggat	480
tttttcagat	tttgggaatat	ttgcatttat	atgcttagta	tttgaacatc	ccaaatctga	540
aaatccaaaa	tgttccagtg	agcattttcc	tttgggtgta	catgaacact	gaaaaagttt	600
cagttttttg	agcattttctg	atttttttgtg	ttttacgtat	gtatatgtat	atctgtatct	660
tgtttttttg	tttgggtgtt	tgagacagaa	tcttgctctg	tcacccaggc	tggagtgcag	720
tgagctgaga	tcagggtcact	gcactctagc	ctgggcgaca	gagcaagatg	caagactctg	780
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aaaaaaaaag	ggcggccgnt	ttaaaggatc	caagnttacg	tacnctgtga	tgc	893

<210> 2457  
 <211> 1066  
 <212> DNA  
 <213> Homo sapiens

<400> 2457						
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gattacagca	tgagccactg	gccgactttt	gcttccttta	cagattactt	tgcagattga	180
catccaggct	atacccttgt	ttatgtgagc	gaggctgtgt	tgtaggcact	ggcactatac	240
ttacacagaa	gttggaact	tctcattgcc	ttgcacaaat	gtggataata	gtaataacaa	300
actaatgttg	aatgattaga	attttaatca	gttcttttaa	agtagccatt	attttggcat	360
gttaggtagg	gagagattca	aattatttat	gttatcttcc	caacttgaga	atggcattat	420
tagatcaagc	cattagactt	atagattgcg	gaagatttag	atgtacttct	taattatgaa	480
aattacattt	accttactca	aataacccca	tatataccta	aaagttttta	taaactaaag	540
catgaccaca	tgactcaatc	agctgtccgt	aataacctgt	ggtataggta	ggacttagtt	600

gggcaaaggg	tgagatgtgg	ccatcttcac	gggctcataa	gagataacca	aggtecccttc	660
aggtecgcca	gcctcatcat	gcctcagctc	tttctaatac	tgcttattag	taagggtggat	720
gtttattcat	ttattttatt	ggtaggttaa	ataacaggcc	gcaattttact	gtgttactta	780
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tgaatatatt	tagctatata	tgagatagga	tatcaaatac	ataaatagtt	caattttgcag	900
ttgcacagtg	ccatttcacc	cagggttaaac	aataggaaga	ctcgatgcat	acgtgtcatc	960
tgtaaatgct	ctcatgtgaa	agaaattgtg	aagtaaaaata	aagtatcttg	agtagaaatt	1020
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<210> 2458  
 <211> 1436  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (449)  
 <223> n equals a,t,g, or c

<400> 2458						
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tcacaccagc	ccatgtcttt	cagctgtgca	tgccagggct	ctgcctctgt	cttcttctctg	180
ttctgtgtgg	cccagccctt	tcttgaac	aggcagccct	ggcaggagtg	agggccagct	240
gcagggaag	tgaagggggc	aacacctgcc	aggctgtggg	tctcacgagg	ctcgggggag	300
ttataagagg	ccccctctct	cagggaactc	ctcccaggct	tggggaggag	gcctcctgga	360
cccagccacg	ccccacagat	ctgaccgaag	caggggttct	tggctcttgct	tggaaaccag	420
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<210> 2459  
 <211> 684  
 <212> DNA  
 <213> Homo sapiens

<400> 2459						
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gttccaccct	gtctttgtgg	tgtgtgtgcc	tagcttccat	tattcatgaa	gtcaacctag	180
aagggcagac	tggttaataa	atgagttggg	acattcttcc	tggcaataca	taaagacctt	240
taatgtctta	aattacttat	cctagtaata	ttacttcctg	gaatctattc	taacgartaa	300
tcagaaattt	taacaggaat	ctatgcatta	aaatgttcat	ggaaggaaaa	tgatcagcaa	360
tgaggaataa	ttaaacgaga	catatataaa	aaaagcaacc	cacaattttt	tttcaagcat	420
ggagaaatgc	tcattgcgaga	atactaagta	aacagcagag	aaactcagac	atacatgggt	480
gcctctgagt	agtgaacttt	tatttccttc	ctaaattttt	gtatttttaa	tctcttctat	540
aatgaatgt	gtatttcctt	tacaatgaaa	aataacattt	ttaaaaacta	aaactaaaga	600

aatgtattgt ttccttttat gtataaatgt cccaagccaa gatacctgaa atataacgag 660  
gaaaagattc tttgtttcac tctg 684

<210> 2460  
<211> 1851  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1171)  
<223> n equals a,t,g, or c

<400> 2460  
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ttacaaatgg aagggtttgtg gtaaccttgc atcaagcaag tctattggca ccatttttcc 240  
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agccctactg ctcaaaaaaa aaagactcct ttaaaaaat tactgctctg gctcacgct 1560  
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ggcgacagag caagactccg tctcaaaaaa aaaaaaaaaa aaaggcgccc c 1851

<210> 2461  
<211> 1693  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (997)  
<223> n equals a,t,g, or c

<400> 2461  
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aattgcttta taaaattgct ttataatttg attttcttac tgaaacgcat ggtgggtgtc 180  
agggtgggaa ctgactgata acccttggca gcaatcaaag tgccagtggc tctcgtatgt 240





<211> 504  
 <212> DNA  
 <213> Homo sapiens

<400> 2463  
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 aatatacatt ttataaaaat gaaaaccata ataaatgttt tgaatattaa aaaaaataat 180  
 aacctacaga ggaaaattaa tggagacagc tatttgcttt gtactttttc cacaattggt 240  
 gctgctagtt gtacacatct ctagtccagc tcttgcccac gggacactca tcaattaggt 300  
 ttatttttta ttcttttctt ctacccccag aaacaagcct gtttaattttt ttctcttctc 360  
 ctctggcgac tgtgtgatga atcctttctt gcgtgatcag gttgcggata gacttgtaag 420  
 ggtgtttgct gcatacagtg taagcattgt gaccgccaat aaacttcaat ggtttctact 480  
 gaaaaaaaaa aaaaaaaaaa aaaa 504

<210> 2464  
 <211> 761  
 <212> DNA  
 <213> Homo sapiens

<400> 2464  
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 gggctgcagg ggtcctgcc caaccgagca ccaacttggc cccctgggggt cctgcctcat 180  
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 gggaaccaca atgcacgaaa gaggaacttg ggttgctaac caggatgctg ggaacaaagg 300  
 cctcttgaag ccagccaca gccagctga gcatgaggcc cagcccatag acggcacagg 360  
 ccacctggcc cattcccttg gcattccctg ctttgcattg ctgcttctct tcaccccggtg 420  
 gaggtatgt caccctaact atcctggaat gtgttgagag ggattctgaa tgatcaatat 480  
 agcttgggtga gacagtgccg agatagatag ccatgtctgc cttgggcacg ggagagggaa 540  
 gtggcagcat gcatgctgtt tcttggcctt ttctgttaga atacttgggtg ctttccaaca 600  
 cactttcaca tgtgttgtaa cttgtttgat ccacccctt ccctgaaaat cctgggaggt 660  
 ttatttgctg ccatttaaca cagagggcaa tagaggttct gaaaggtctg tgtctcgtca 720  
 aaacaagtaa acggtggaac tacgactaaa aaaaaaaaaa a 761

<210> 2465  
 <211> 1924  
 <212> DNA  
 <213> Homo sapiens

<400> 2465  
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 gcagagaaat gttatcacag aaacttggaa tgcagaaaaa tttttgcttt ttaggggagg 180  
 tgttatcaca gaaacttggg atacaaagac ctccccccac cgcagccctg cccacccca 240  
 cctacccccct gctggattta gcactgcaat tccatttttag cagtgatttc cttccttttt 300  
 gccctcgccct gccttcagat aacacataat ttccttctat ttccagagct gtcgatgatg 360  
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 cagaagtttc acacatcaaa gtaaaagatt tgcataatcat tatactaaat gcaaatgagt 1140  
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aataattaaa	gcaacttcaa	gtttaaaaatg	cagctgttga	ttctaccaa	caacagtcca	1380
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ctgaaccagt	atgccaaaaac	caggcatcca	atttgtaaac	caattatgat	aaaggacaaa	1680
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ttaccttggg	aaaatgctag	caacattata	gaaattttgc	cttggtgcct	tatcttcttc	1860
caaagtgtact	gttaaataaa	aataaagggt	taccccatgc	aatcacaaaa	aaaaaaaaaa	1920
aaaa						1924

<210> 2466

<211> 1600

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (464)

<223> n equals a,t,g, or c

<400> 2466

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cccctgatga	gaaatgtgta	tttttattgc	atatttaggc	catttgaaaa	atgggtatta	240
cttaccata	taatacaaaag	aatagggttc	ttctaagaaa	ttcaaagcac	actgcaaatt	300
aatcttaatt	gtttggcatt	tattcattcc	ctgagtcatt	catctattcg	gtaatgattt	360
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<210> 2467

<211> 759

<212> DNA

<213> Homo sapiens

<400> 2467

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aaaaaaaa						1628

<210> 2474  
 <211> 1957  
 <212> DNA  
 <213> Homo sapiens

<400> 2474						
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gtgtttctaa	attgaaacac	tttcagatta	atggatttaa	gataactggt	tgctcttttc	180
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tgttccttta	tttcattcat	ccattcattc	agcaaatatt	tgctgagcac	taaaatgctc	300
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The 1990s		The 2000s		The 2010s		The 2020s	
Year	Age	Year	Age	Year	Age	Year	Age
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 <211> 840  
 <212> DNA  
 <213> Homo sapiens

<400> 2505						
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 <211> 2387  
 <212> DNA  
 <213> Homo sapiens

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<210> 2507  
 <211> 2064  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1596)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2005)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2047)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2057)  
 <223> n equals a,t,g, or c

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aaccccttcg	tcacccgcca	ctcagagcaa	gcctacacct	gtgaagccaa	actatgctct	240
aaagttcacc	cttgctggcc	acaccaaagc	agtgctcctc	gtgaaattca	gcccgaatgg	300
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gaaatttgag	aaaaccatat	ctggtcacaa	gctgggaata	tccgatgtag	cctgggtcgtc	420
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<212> DNA  
<213> Homo sapiens

<400> 2510  
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 gtcttgggat tctacatttt cgcaagctcc cagataaatgc cagtgtctgt ggtccacaga 540  
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 cacatacaaa ttaccagttg ctttcctcat tgtgttttgg tgcactaaa gctaagatga 660  
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 cgaccatttg gtctagcatg tatggagact accaagacag gcttattgtg ttggaagaag 780  
 tgatgcttat gtttttagac tcttatggaa tataccaatt cctgtatgtt agccaagggt 840  
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<210> 2511  
<211> 1642  
<212> DNA  
<213> Homo sapiens

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<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (957)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1578)  
<223> n equals a,t,g, or c

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<210> 2512  
 <211> 1534  
 <212> DNA  
 <213> Homo sapiens

<400> 2512						
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<210> 2513  
 <211> 857  
 <212> DNA  
 <213> Homo sapiens

<400> 2513						
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gtgacgacga	wtkagtaacc	agtggtttgt	ttttgaaaca	tttgaagaag	tgttccatat	660

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<210> 2514  
 <211> 819  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (814)  
 <223> n equals a,t,g, or c

<400> 2514						
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<210> 2515  
 <211> 739  
 <212> DNA  
 <213> Homo sapiens

<400> 2515						
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<210> 2516  
 <211> 1537  
 <212> DNA  
 <213> Homo sapiens

<400> 2516						
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&lt;210&gt; 2517

&lt;211&gt; 2146

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2125)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 2517

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<210> 2518  
 <211> 1384  
 <212> DNA  
 <213> Homo sapiens

<400> 2518						
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cagttgaaaa	atatgtttta	tgaggattgt	gggttttgtt	agttcttacc	acactgccac	300
gccacactca	gtttgagaaa	tacacacacg	acaactccag	actcatttca	gaaatatttt	360
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aaaaaaaaaa	acaaaaaaca	aaatgctgtt	ttatttgtat	tttargacat	ttctgcctaa	480
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gtaataaaaa	ttaataaaaag	tcattttttta	aagaaaaaaa	aaaaaaaaaa	aaaagggcgg	1380
ccgc						1384

<210> 2519  
 <211> 1374  
 <212> DNA  
 <213> Homo sapiens

<400> 2519						
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tcctctcttt	ccttccctcc	ttccttcttt	cctcaacctc	gggcctccca	aaagttgtctg	240

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cacattaggc	agtactacaa	atgttaattc	ttaaacaata	ctgtgggtgat	ggcaatcagt	720
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taacataact	gtaccttttt	tttgttcttg	gtatccatac	attttaagat	ggaaaatcag	840
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aaaggtaata	taaactggct	tgattttataa	aagatgtttt	gtttggcagt	tatcagtc	960
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attactatta	ctttttaatc	tgagaaacta	ggatgcttct	tcctatcaaa	gaaaagggtt	1260
tggtttttgt	tttcatctta	gacattgcaa	atattctttg	ggtcactttt	aggataataa	1320
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<210> 2520  
 <211> 743  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (5)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (25)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (41)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (44)  
 <223> n equals a,t,g, or c

<400> 2520						
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gaaggggagg	agacgttgga	atcagatgat	gaaaaagatg	agcatacttc	taaaaagcgc	240
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gtactgctaa	acttggtgaa	atgtttcttt	ggacagatta	agttgatatt	gtgggttatt	360
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tgctttgaga	gttttgtcac	atgttgacat	gccaatgttc	ttataaacct	tttataaagg	600



aatatat	taaaagtaaat	atattgtaat	gtactgtgaa	cttgtagggt	gcttttcaac	660
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aaaaaaaaaa	aaagggcggc	cgc				743

<210> 2521  
 <211> 736  
 <212> DNA  
 <213> Homo sapiens

<400> 2521						
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tgcgtttatg	gcaggtagct	ggtattttatt	ccccaaagta	ataatgttga	agtatgggtc	180
tcatcattcc	catacacaga	aacacaaaac	actttgatca	taaacttttt	tcttcagaag	240
ccaaactaac	ttgcagaata	atagagccac	tggtttaatg	tttcctcaag	ataggtttta	300
gtgtaagcta	gtattctgtg	tgttcgtaga	aatgattcaa	tacctgcagc	tggtgaatta	360
ggaattgtat	ttgttgcctt	ttttatatta	gatgagggtg	aaaaatttta	atgctagtca	420
gtatgcacca	ccacaggaaa	gttagatccc	attagactct	gaaactacag	ctttggaaac	480
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<210> 2522  
 <211> 803  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (767)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (790)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (793)  
 <223> n equals a,t,g, or c

<400> 2522						
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<210> 2523

<211> 1010  
 <212> DNA  
 <213> Homo sapiens

<400> 2523  
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 gctttcatgt tctgtcattc tgagatcttt ttttctttcc ctctctctgt cttcttttcc 300  
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 gttgtggggag atgggggactt aaatacttaa aaacaattac caaacattaa acacaattca 480  
 cgcttctctt tcatttcttt aaaggactct aggtctccctc tcctcctcct cctcttccct 540  
 tattcttttag gtgcagaatg aaaagatagg acataaggaa aaacaacttt tggaaaatat 600  
 ctgtaacata attattttaa gtaatctcat ccactgctca cagtaaatgg atgagatcgg 660  
 ataaagtttg ctttttaatt aagggcaagt gaatacttaa gccctttcga ttagaaggat 720  
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 tgctctagcc cccagtttag atataccttc tagatctttg ggagtttata gtcttctgat 840  
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<210> 2524  
 <211> 1554  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (847)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (888)  
 <223> n equals a,t,g, or c

<400> 2524  
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 <212> DNA  
 <213> Homo sapiens

<400> 2525						
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 <212> DNA  
 <213> Homo sapiens

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<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naaaaaaaaa 2040  
aaaaaaaaaa aaaaaaaaaa 2058

<210> 2527  
<211> 1781  
<212> DNA  
<213> Homo sapiens

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 <211> 1781  
 <212> DNA  
 <213> Homo sapiens

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 <211> 575  
 <212> DNA  
 <213> Homo sapiens

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<210> 2530  
 <211> 646  
 <212> DNA  
 <213> Homo sapiens

<400> 2530						
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<210> 2531  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 2531						
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<210> 2532  
 <211> 963  
 <212> DNA  
 <213> Homo sapiens

<400> 2532						
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ccataccaaa gacactcaaa gacagccaat aaattctgtt caatcaaaaa aaaaaaaaaa 960  
aaa 963

<210> 2533  
<211> 1574  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (457)  
<223> n equals a,t,g, or c

<400> 2533  
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<210> 2534  
<211> 2735  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (66)  
<223> n equals a,t,g, or c

<400> 2534  
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gctatgctta gtgcctctag cactttgcct gcagtggctc cagcaggctg tagctccaaa 180  
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<210> 2535

<211> 1121

<212> DNA

<213> Homo sapiens

<400> 2535

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ctgcataaat	gtcttctttt	gagaagtgtc	tgttcatatc	cttcaccac	tttttgatgg	900
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<210> 2536  
 <211> 1971  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1926)  
 <223> n equals a,t,g, or c

<400> 2536						
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agagtgtacc	tttaattacta	ctgtatttgc	aaattaagg	aaatttaggt	catcatttga	1920
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<210> 2537  
 <211> 1971  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1926)  
 <223> n equals a,t,g, or c

<400> 2537						
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<210> 2538  
 <211> 1986  
 <212> DNA  
 <213> Homo sapiens

<400> 2538						
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<210> 2541  
 <211> 688  
 <212> DNA  
 <213> Homo sapiens

<400> 2541  
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 gcgagatcct gaggggtttct cttcgtctcc acggcctggg gtaaggggct gccccgcgcc 180  
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 atagctgaga ggaaaaaaaa aaaaaaaaaa 688

<210> 2542  
 <211> 1940  
 <212> DNA  
 <213> Homo sapiens

<400> 2542  
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 ccagcaagga aattaataag ttactgattc ttcagcatag aaacaactga gaagaattaa 300  
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 aatgcgtata taacatacat atctccctaa agtttacaat attgtagtgg ttcattgggc 720  
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<213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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<211> 699  
<212> DNA  
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<211> 1236  
<212> DNA  
<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens
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<210> 2560  
 <211> 1161  
 <212> DNA  
 <213> Homo sapiens  
  
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 <221> SITE  
 <222> (1)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (899)  
 <223> n equals a,t,g, or c

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aaaaaaaaaa	agggcgggccg	c				1161

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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<211> 372  
<212> DNA  
<213> Homo sapiens

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taacctgcca ctaatagtta tgtcatccct cttattaatc atcatcctag ccctaagtct 300  
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aaaaaaaaaa aa 372

<210> 2565  
<211> 2731  
<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (579)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1532)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2362)

<223> n equals a,t,g, or c

<400> 2565

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 <212> DNA  
 <213> Homo sapiens

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<210> 2567  
 <211> 625  
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (623)

<223> n equals a,t,g, or c

<400> 2567

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gctcatctgc	aggcacttga	tgttgtgtat	cagtgttttc	tgtctgctga	tgactctcct	180
gttccccctc	gttctttag	ttttgtatat	ktkactcacc	ttcagatcat	cttggcagta	240
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ttgacagtg	cagatccgca	tgcgttattt	atttcaagaa	ccctatccca	cttctctgca	360
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aactagctgt	tgttcagcaa	gacaccctaa	ggagagtga	aaactaaagaa	caaactgggg	480
taagatatatt	gttaaaataa	tatataaact	catataattg	taaaaagatt	aatatytaga	540
ctatatattt	tttaaaaacc	ctgtgactca	agttataaaa	agacaaccgg	gtagaaaagt	600
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<210> 2568

<211> 831

<212> DNA

<213> Homo sapiens

<400> 2568

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ccatgtgaag	gtcacttccc	ttctcatgga	gtcagctgag	catcagctca	gccctgccat	180
gtccccactc	accctcctcg	cctcctgtcc	ggccctgggt	ttctagcggt	gcctgaggca	240
tcactctggc	ccattgacag	atgagaggtc	tgaagccttc	ctggccacag	gcacactttt	300
ctcctcctcc	tcatgccctg	ccttgtcctt	gtcgtgttgc	catgggggttc	tgagaggctg	360
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caaaaattagc	cggacaaggt	ggcgcatgcc	tataatccca	ggtactcagg	aggctgaggc	720
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<210> 2569

<211> 1468

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (561)

<223> n equals a,t,g, or c

<400> 2569

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ctctgggccc	agagttgagg	ggaatgattt	gactggcgag	gcagactctg	cttgggtccca	420
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<210> 2570  
 <211> 1411  
 <212> DNA  
 <213> Homo sapiens

<400> 2570						
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taataaccct	ttattttatg	tgacaccaaa	aagaattgaa	aaatacaagg	attgcaattt	240
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<210> 2571  
 <211> 875  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (521)  
 <223> n equals a,t,g, or c

<400> 2571						
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gggctagcca	cacatatggt	ttacaatact	tggtctgcaa	tgctgtcttt	tgggtctgag	120



<220>  
 <221> SITE  
 <222> (6)  
 <223> n equals a,t,g, or c

<400> 2574  
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 atgtcttgcc agcaaaacca gcagcagtcg cagccccctc ccaagtgtcc tcccaagtgt 180  
 accccaaaat gtccacctaa gtgtcccccc aaatgcccac cacagtgtcc agctccatgt 240  
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<210> 2575  
 <211> 871  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (555)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (585)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (744)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (837)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (843)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (847)  
 <223> n equals a,t,g, or c

<400> 2575  
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caccctcaaa	cctgagctcc	tcgccccact	ccagagtgg	ggtttggcca	tcacctatgg	420
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<210> 2576  
 <211> 843  
 <212> DNA  
 <213> Homo sapiens

<400> 2576						
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catgaactct	tagtatcatt	gggaaggcca	catttgccac	ttatgattgt	aaaccttatc	180
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cagtctgata	agtctttgat	aagtctaata	ataataactg	ataagtccat	tgaatttgct	300
tctgattact	ttttcttttag	tagctaaaca	tgtatgtact	cctatgatta	caatgaacac	360
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<210> 2577  
 <211> 2973  
 <212> DNA  
 <213> Homo sapiens

<400> 2577						
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<210> 2578  
 <211> 536  
 <212> DNA  
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<400> 2578						
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tcagtaatat	gcctgtgagt	tagaaagata	ctggaaacat	ttcaatgcca	aaagtaacat	480
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 <211> 1898  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (265)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> SITE

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<222> (1897)
<223> n equals a,t,g, or c
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<210> 2580
<211> 1701
<212> DNA
<213> Homo sapiens
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1477

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<211> 787

<212> DNA

<213> Homo sapiens

<220>

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<222> (7)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (16)

<223> n equals a,t,g, or c

<400> 2581

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ctgtacttca	gtttttttgta	tttgtaaaaa	tatatattgta	ataatctcat	agttaaaaaa	720
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<210> 2582

<211> 1030

<212> DNA

<213> Homo sapiens

<400> 2582

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<210> 2583

<211> 2770

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1570)

<223> n equals a,t,g, or c

<400> 2583

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<210> 2584  
<211> 598  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (597)  
<223> n equals a,t,g, or c

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<210> 2585  
<211> 2306  
<212> DNA  
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<220>  
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<222> (10)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
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 <223> n equals a,t,g, or c

<400> 2585

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<210> 2586  
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 <212> DNA  
 <213> Homo sapiens

<400> 2586

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<210> 2587  
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 <212> DNA  
 <213> Homo sapiens

<400> 2587  
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<210> 2588  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> n equals a,t,g, or c

<400> 2588  
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 ccagagtgtc tgtgggatga ggtccttgat agactttggt tctatatata gttcagccct 240  
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<210> 2589  
 <211> 2789  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (754)  
 <223> n equals a,t,g, or c

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 <211> 1145  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (1127)  
 <223> n equals a,t,g, or c

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taagg						1145

<210> 2591  
 <211> 592  
 <212> DNA  
 <213> Homo sapiens

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<210> 2592  
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 <212> DNA  
 <213> Homo sapiens

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gactggcaac	gttttcagta	ctttccaaaa	ctgctatctc	tactgaggta	ttgtcctgtc	300
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<210> 2594  
 <211> 1168  
 <212> DNA  
 <213> Homo sapiens

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<210> 2595  
 <211> 1193  
 <212> DNA  
 <213> Homo sapiens

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<210> 2596  
 <211> 584  
 <212> DNA

<213> Homo sapiens

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 gggagagacc tgcttgcttt ttcatattggg agttacctgc tccttggcct ggaggagaag 180  
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 tcaactggcat cggttccaac cagacagact cactcaggca gttccccaat atagggaagg 480  
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<210> 2597

<211> 896

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (885)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (886)

<223> n equals a,t,g, or c

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 ccaccacca cccctktccc ccttcccttc aagacacaca ccactcagct ccacacaacc 840  
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<210> 2598

<211> 2178

<212> DNA

<213> Homo sapiens

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aggcctgggtg	attggggctg	gcgcctgcta	ttgcatttat	agactgacta	ggggaagaaa	180
acagaacatg	gaaaaaatgg	ctgaggggtg	atctggggat	gtggatgatg	ctggggactg	240
ttctggggcc	aggtataatg	actggtctga	tgatgatgat	gacagcaatg	agagcaagag	300
tatagtatgg	taccacacct	gggctcggat	tgggactgaa	gctggaacca	gagctagggc	360
cagggcaagg	gccagggcta	cccgggcacg	tgggctgtc	cagaaacggg	cttcccccaa	420
ttcagatgat	accgttttgt	cccctcaaga	gctacaaaag	gttctttgct	tggttgagat	480
gtctgaaaag	ccttatattc	ttgaagcagc	tttaattgct	ctgggtaaca	atgctgctta	540
tgcatttaac	agagatatta	ttcgtgatct	gggtgggtct	ccaattgtcg	caaagattct	600
caatactcgg	gatcccatag	ttaaggaaaa	ggctttaatt	gtcctgaata	acttgagtgt	660
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cacttctcgc	ttgaactcat	ctgtgcagct	tgctggactg	agattgctta	caaatatgac	780
tgttactaat	gagtatcagc	acatgcttgc	taattccatt	tctgactttt	ttcgtttatt	840
ttcagcggga	aatgaagaaa	ccaaacttca	ggttctgaaa	ctccttttga	atttggctga	900
aaatccagcc	atgactaggg	aactgctcag	ggcccaagta	ccatcttcac	tgggctccct	960
ctttaataag	aaggagaaca	aagaagttat	tcttaaactt	ctggtcatat	ttgagaacat	1020
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actttttttc	ttttttaaag	aatttcaagt	gtgtgctgat	aagggttctg	gaatagaaa	1140
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tatgttccca	aagagccagg	aataacacct	tgatttttga	atttagaagc	aacacacatt	1260
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ggtttaagat	ggataaatga	atatcactac	ttgttctgaa	aacatgtttg	ttgcttttta	1440
tctcgctgcc	tagattgaaa	tatttttgcta	tttcttctgc	ataagtgaca	gtgaaccaat	1500
tcacatgag	taagctccct	tctgtcattt	tcattgattt	aatttgtgtg	tcacataata	1560
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<210> 2607  
 <211> 1177  
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1071)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1164)

<223> n equals a,t,g, or c

<400> 2607

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cgcaagaggt	gaaacaagat	gtgagagaca	aggggtaggg	aagaaatggg	gcagcgggta	180
ggttcagaag	cgcatagacc	gtggcggacg	ggcaatgcga	ggggcacaga	aaggaactga	240
gggggtgggct	atttaaggag	atggtcctca	gccctctctt	ttctgcgtag	gtctcctcct	300
ccaggccgcg	cgcggtatg	tcgtccggaa	accagcccag	tctaggctgg	atgatgaccc	360
acctccttct	acgctgctca	aagactacca	gaatgtccct	ggaattgaga	aggttgatga	420
tgtcgtgaaa	agactcttgt	ctttggaaat	ggccaacaag	aaggagatgc	taaaaatcaa	480
gcaagaacag	tttatgaaga	agattgttgc	aaacccagag	gacaccagat	ccctggaggc	540
tcgaattatt	gccttgtctg	tcaagatccg	cagttatgaa	gaacacttgg	agaaacatcg	600
aaaggacaaa	gcccacaaac	gctatctgct	aatgagcatt	gaccagagga	aaaagatgct	660
caaaaacctc	cgtaacacca	actatgatgt	ctttgagaag	atatgctggg	ggctgggaat	720
tgagtacacc	ttccccctc	tgtattaccg	aagagcccac	cgccgattcg	tgaccaagaa	780
ggctctgtgc	attcgggttt	tccaggagac	tcaaaagctg	aagaagcgaa	gaagagcctt	840
aaaggctgca	gcagcagccc	aaaaacaagc	aaagcggagg	aacccagaca	gccctgccaa	900
agccatacca	aagacactca	aagacagcca	ataaattctg	ttcaatcatt	tctttctgtc	960
ttgaagaatg	ataggagaga	tgatggggct	ctttttggcc	tgaagaggag	aaggaattta	1020
ttctttcatt	cagctytgag	atcccagagk	tttctgaggc	aragtcctcg	nctyaccac	1080
cagaggatac	acacttatga	catgcctccc	acacattcat	acaaacaagt	acctgttcat	1140
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<210> 2608

<211> 17

<212> PRT

<213> Homo sapiens

<400> 2608

Gln	Thr	His	Tyr	Tyr	Asp	Leu	Pro	Lys	Asp	Ser	Leu	Gln	Val	Val	Asn
1				5				10						15	

His

<210> 2609

<211> 40

<212> PRT

<213> Homo sapiens

<400> 2609

Met	Arg	Met	Lys	Thr	Arg	Thr	Lys	Thr	Leu	Arg	Lys	Ala	Gln	Met	Leu
1				5				10						15	

Phe	Arg	Leu	Leu	Thr	Leu	Arg	Met	Asp	Leu	Leu	Val	Leu	Leu	Leu	Pro
				20				25						30	

Arg Leu Asp Cys Pro Gln Thr Arg

<210> 2610  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 2610  
 Met Lys Ala His His  
 1 5

<210> 2611  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 2611  
 Met Met Phe Ser Leu Leu Leu Thr Thr Cys Leu Ser Arg Lys Ala Cys  
 1 5 10 15  
 Gly Val Arg Met Met Trp Pro Ile Ser Met Trp Lys Gln Arg Lys Glu  
 20 25 30  
 Thr Asp Ile Ala  
 35

<210> 2612  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 2612  
 Met Met Phe Ser Leu Leu Leu Thr Thr Cys Leu Ser Arg Lys Ala Cys  
 1 5 10 15  
 Gly Val Arg Met Met Trp Pro Ile Ser Met Trp Lys Gln Arg Lys Glu  
 20 25 30  
 Thr Asp Ile Ala  
 35

<210> 2613  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 2613  
 Met Pro Ala Trp Lys Cys Pro Cys Ile Arg Gly Leu Leu His Ser Leu  
 1 5 10 15  
 Leu Leu Arg Glu Ala Ser Ala Ser Ala Gln Gly Val Cys Ala Ala Leu  
 20 25 30

<210> 2614  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2614  
 Met Pro Leu Phe Leu Ser Ile Pro Ser Leu Phe Leu Thr Leu Ser Gly  
           1                  5                  10                  15  
 Leu Gly Leu Ala Val Gln Ser Pro Ala Gly Xaa Cys Trp Gly Leu Ser  
                   20                  25                  30  
 Leu Cys Arg His Cys Val Phe Leu Arg Gly Cys Pro Gln Asn Thr Pro  
                   35                  40                  45  
 Pro Ala Pro Trp Gly Ser Ser Gly Ser His Phe Ser Trp Ser Leu Arg  
           50                  55                  60  
 Ser Gln Lys Gln Leu Leu Gln Glu Ala Lys Lys Arg Leu Gly Trp Leu  
           65                  70                  75                  80  
 Leu Val Leu Met Met Ala Phe Ile Leu Leu Gly His Phe Gly Tyr Ile  
                   85                  90                  95  
 His Gly His Cys Phe His Leu Ser Phe Leu Pro Val Pro Pro Leu Pro  
                   100                  105                  110

<210> 2615  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 2615  
 Met Gln Lys Phe Ile Gln Ala Met Leu Arg Lys Leu Leu Leu Met Gln  
           1                  5                  10                  15  
 Met Met Cys Asp Trp Gln Ser Ser Ala Ala Leu Ile Ser Leu Leu Pro  
                   20                  25                  30  
 Leu Leu Pro Gln Glu Ile Phe Tyr  
           35                  40

<210> 2616  
 <211> 40

<212> PRT  
<213> Homo sapiens

<400> 2616

Met	Cys	Phe	Asn	Phe	Lys	Tyr	Phe	Phe	Leu	Cys	Gly	Lys	Cys	His	Val
1				5					10					15	
Thr	Ile	Ala	Leu	Pro	Ser	Val	Trp	Thr	Val	Leu	Val	Leu	Val	Leu	Ser
			20					25					30		
Val	Tyr	Gln	Lys	Ser	Gly	Cys	Leu								
		35					40								

<210> 2617

<211> 246

<212> PRT

<213> Homo sapiens

<400> 2617

Met	Gln	Pro	Ser	Trp	Leu	Thr	Arg	Cys	Pro	Thr	Trp	Pro	Trp	Pro	Met
1				5					10					15	
Gly	Ala	Ala	Trp	Pro	Arg	Arg	Ala	Arg	Ser	Trp	Trp	Ile	Arg	Thr	Ser
			20					25					30		
Thr	Ala	Ser	Ser	Pro	Ser	Pro	Ser	Ser	Ser	Ile	Thr	Leu	Leu	Trp	Thr
			35				40					45			
Pro	Cys	Met	Trp	Ala	Glu	Ser	Trp	Ala	Cys	Cys	Ser	Ser	Pro	Thr	Tyr
		50				55					60				
Thr	Arg	Thr	Gly	Lys	Cys	Ser	Thr	Asn	Arg	Thr	Pro	Arg	Trp	Pro	Pro
	65				70					75					80
Ala	Leu	Thr	Ser	Met	Pro	Arg	Thr	Ser	Thr	Phe	Gln	Gln	Trp	Ala	Phe
				85					90					95	
Ile	Thr	Tyr	Val	Leu	Val	Ala	Gly	Leu	Ala	Leu	Gly	Thr	Gln	Asp	Arg
			100					105					110		
Phe	Ser	Pro	Asp	Leu	Leu	Gly	Leu	Gln	Ala	Ser	Ser	Ala	Leu	Ala	Trp
		115					120					125			
Leu	Thr	Leu	Glu	Val	Leu	Ala	Ile	Leu	Leu	Ser	Leu	Tyr	Leu	Val	Thr
		130				135					140				
Val	Asn	Thr	Asp	Leu	Thr	Thr	Ile	Asp	Leu	Val	Ala	Phe	Leu	Gly	Tyr
	145				150					155				160	
Lys	Tyr	Val	Gly	Met	Ile	Gly	Gly	Val	Leu	Met	Gly	Leu	Leu	Phe	Gly
				165					170					175	
Lys	Ile	Gly	Tyr	Tyr	Leu	Val	Leu	Gly	Trp	Cys	Cys	Val	Ala	Ile	Phe
		180						185					190		
Val	Phe	Met	Ile	Arg	Thr	Leu	Arg	Leu	Lys	Ile	Leu	Ala	Asp	Ala	Ala
		195					200					205			
Ala	Glu	Gly	Val	Pro	Val	Arg	Gly	Ala	Arg	Asn	Gln	Leu	Arg	Met	Tyr



0950003.04304

210

215

220

Leu Thr Met Ala Val Ala Ala Ala Gln Pro Met Leu Met Tyr Trp Leu  
225 230 235 240

Thr Phe His Leu Val Arg  
245

<210> 2618  
<211> 27  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2618  
Val Phe Trp Pro Thr Ser Glu Xaa Leu Leu Asn Cys Met Val Trp Gly  
1 5 10 15

Arg Glu Gly Asn Leu Lys Ser Arg Pro Asn Lys  
20 25

<210> 2619  
<211> 111  
<212> PRT  
<213> Homo sapiens

<400> 2619  
Met Thr Glu Ser Phe Tyr Pro Leu Asn Gln Arg Lys Gln Asn Glu Asn  
1 5 10 15

Pro Ser Ala Val Leu Met His Leu Phe Leu Phe Ser Val Thr Met Gln  
20 25 30

Gln Val Ala Arg Thr Val Ala Lys Val Glu Leu Ser Asp His Val Cys  
35 40 45

Asp Val Val Phe Ala Leu Phe Asp Cys Asp Gly Asn Gly Glu Leu Ser  
50 55 60

Asn Lys Glu Phe Val Ser Ile Met Lys Gln Arg Leu Met Arg Gly Leu  
65 70 75 80

Glu Lys Pro Lys Asp Met Gly Phe Thr Arg Leu Met Gln Ala Met Trp  
85 90 95

Lys Cys Ala Gln Glu Thr Ala Trp Asp Phe Ala Leu Pro Lys Gln  
100 105 110

<210> 2620  
<211> 47  
<212> PRT

<213> Homo sapiens

<400> 2620

Met Thr Pro Pro His Val Leu Leu Lys Gly Val Leu Val Val Ser Arg  
1 5 10 15

Val Cys Val Ser Leu Leu Cys Cys Pro Pro Gly Cys Ser Val Cys Cys  
20 25 30

Pro Leu Pro Pro Gly Gly Ser Pro Cys Phe Ser Pro Ile Tyr Ser  
35 40 45

<210> 2621

<211> 48

<212> PRT

<213> Homo sapiens

<400> 2621

Met Asn Ser Trp Lys Phe Gly Gly Leu Cys Leu Leu Leu Ile Ile Ser  
1 5 10 15

Val Trp Leu Lys Gln Ser Trp His Gln Gly Arg Val Cys Cys Asp Asp  
20 25 30

Ser Arg Glu Gly Asp Ser Gln Gly Val Ala His Gln Ala His Glu Ala  
35 40 45

<210> 2622

<211> 25

<212> PRT

<213> Homo sapiens

<400> 2622

Met Val Cys Ile Phe Lys Thr Glu Asp Val Leu Pro Phe Leu Leu Leu  
1 5 10 15

Phe Phe Leu Phe Ser Phe Phe Phe Phe  
20 25

<210> 2623

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2623

Met Val Ala Gly Thr Pro Cys Phe Leu Pro Leu Leu Ser Ala Cys Val  
1 5 10 15

Thr His Ile Asn Gly Asn Asn Phe Phe Gln Leu Leu Ala Glu Val Gly  
20 25 30

Glu Ala Gly Ser Leu His Arg Glu Gly Leu Ser Ser Leu Leu Leu Pro